SONY

CAMERA ADAPTOR

CA-530

MAINTENANCE MANUAL
1st Edition (Revised 2)
Serial No. 10001 and Higher (SY)
Serial No. 30001 and Higher (J)

⚠警告

このマニュアルは，サービス専用です。
お客様が，このマニュアルに記載された設置や保守，点検，修理などを行うと感電や火災，人身事故につながることがあります。
危険をさけるため，サービストレーニングを受けた技術者のみご使用ください。

⚠WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠AVERTISSEMENT

Ce manual est destiné uniquement aux personnes compétentes en charge de l’entretien. Afin de réduire les risques de décharge électrique, d’incendie ou de blessure n’effectuer que les réparations indiquées dans le mode d’emploi à moins d’être qualifié pour en effectuer d’autres. Pour toute réparation faire appel à une personne compétente uniquement.

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Manual Structure

Purpose of this manual

This manual is the maintenance manual for Camera Adaptor CA-530.

This manual describes the information items necessary when the unit is supplied and installed, items that premise the service based on the components parts such as alignment, schematic diagrams, board layouts and spare parts lists, assuming use of system and service engineers.

Contents

The following are summaries of the each section for understanding the manual.

Section 1. Installation

Describes information about ROM version check, connectors and cables, function of internal switches and instance of system configuration.

Section 2. Service Overview

Describes circuit description, information about replacement of board and notes on service.

Section 3. Electrical Alignment

Explains the general information for electrical adjustment and the adjustment procedure of this unit.

Section 4. Spare Parts

Describes exploded views, parts list, supplied accessories and optional fixtures used in the unit.

Section 5. Semiconductor Pin Assignments

Describes function diagrams and pin names of semiconductor used in the unit.

Section 6. Block Diagram

Describes overall block diagram and block diagrams for every circuit board.

Section 7. Schematic Diagrams

Describes schematic diagrams for every circuit board and frame wiring.

Section 8. Board Layouts

Describes board layouts for every circuit board.

Related manual

Besides this maintenance manual the following manual is available for this unit.

- **Operation Manual (Supplied with this unit)**
  This manual is necessary for application and operation of this unit.

Section 1
Installation

1-1. Check of ROM version

When the CA-530 is to be connected to the BVP-550/550P, be sure to check that the ROM version for IC36/AT-95 board of the camera is Ver. 3.00 or higher. If ROM replacement is required, please consult your Sony service representative.

ROM Version

IC36/AT-95 board Ver. 3.00 or higher

Note

ROM version can be checked easily on the viewfinder screen. For details, refer to the BVP-550/550P maintenance manual, Section 3 “Setup Menu”.

1-2. Supplied Accessories

Accessory	Sony P/N	Qt’y
Shoulder Belt	A-6772-374-A	1
Battery Spacer (for DC-300)	3-694-183-01	1
Cable Holders	3-692-186-01	2
Cable Holder Fixing Screws	7-682-547-09	4
Operation Manual	————	1
Maintenance Manual	————	1

1-3. Connectors and Cables

1-3-1. Connector Input/Output Signals

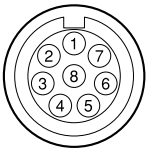
Input Signal

- GENLOCK IN
  BNC 75 Ω, BB 0.286 V or VBS 1.0 V

Output Signals

- SERIAL OUT
  BNC 75 Ω, 0.8 Vp-p ±10%
  D1 format serial digital
  SMPTE 259M/ITU-R BT. 656
- MONITOR
  BNC 75 Ω, 1.0 Vp-p

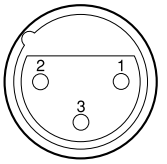
REMOTE (8P FEMALE)



(EXTERNAL VIEW)

No.	Signal	Specifications
1	TX (+)	BVP SERIAL DATA
2	TX (–)	
3	RX (+)	CCU/MSU/RCP/CNU/VCS
4	RX (–)	SERIAL DATA
5	VIDEO (G)	GND for VIDEO
6	POWER (+) OUT	+12 V, 500 mA (MAX)
7	POWER (–) OUT	GND for +12 V
8	VIDEO (X) OUT	VBS 1.0 Vp-p, Zo = 75 Ω
	CHASSIS GND	CHASSIS GND

MIC IN (3P FEMALE)

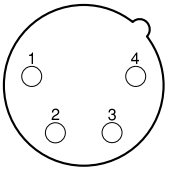


(EXTERNAL VIEW)

No.	Signal	Specifications
1	MIC IN (G)	–60 dBu High impedance
2	MIC IN (X)	balanced
3	MIC IN (Y)	

(0 dBu = 0.775 Vrms)

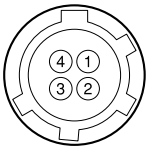
DC IN (4P MALE)



(EXTERNAL VIEW)

No.	Signal	Specifications
1	GND	GND for DC (+)
2	NC	No connection
3	NC	No connection
4	DC (+)IN	DC 10.5 V to 17 V

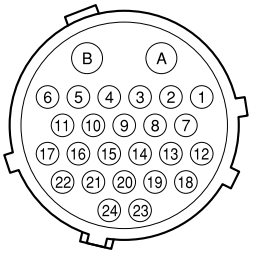
DC OUT (4P FEMALE)



(EXTERNAL VIEW)

No.	Signal	Specifications
1	GND	GND for UNREG
2	NC	No connection
3	NC	No connection
4	UNREG +12 V OUT	+12 Vdc 200 mA

VTR (26P MALE)



(EXTERNAL VIEW)

*1: In connection with analog VTR
*2: In connection with digital VTR

No.	Signal	Specifications
A	POWER(+) IN	UNREG 10.6 V to 17 V, 3A
B	POWER(–) IN	
1	VBS *1/SDI *2 OUT (X)	VBS 1.0 Vp-p, Zo = 75 Ω
2	VBS *1/SDI *2 OUT (G)	SDI 0.8 Vp-p ±10%, Zo = 75 Ω
3	Y VIDEO OUT(G)	VS 1.0 Vp-p, Zo = 75 Ω
4	Y VIDEO OUT(X)	
5	R-Y VIDEO OUT(X)	Zo = 75 Ω
6	R-Y VIDEO OUT(G)	756 mVp-p (J)
7	B-Y VIDEO OUT(X)	700 mVp-p (UC)
8	B-Y VIDEO OUT(G)	525 mVp-p (CE)
9	MIC OUT(X)	Zo ≦ 600 Ω,
10	MIC OUT(Y)	–60 dBu balanced
11	MIC OUT(G)	
12	VTR START/$\overline{\text{STOP}}$ OUT	START: 5 ±1 Vdc, STOP: 0 $^{+0.2}_{-0.1}$ Vdc, Zo ≦ 10 kΩ
13	BATT IND IN	Zi = 300 Ω *Note 1
14	COMPOSITE/SDI SELECT IN	OPEN: COMPOSITE GND: SDI
15	REC ALARM IN	Zi ≧ 20 kΩ *Note 2
16	NC	No connection
17	GND (SHIELD)	Camera GND
18	PB VIDEO IN (X)	VS 1 Vp-p, Zi = 75 Ω
19	PB VIDEO IN (G)	
20	AUDIO MONITOR IN/ VTR SAVE OUT	SAVE: +4.5 ±0.5 V, STANDBY: +9.0 $^{+1}_{-0.5}$V, Zo ≦ 10 kΩ MONITOR: Zi = 750 Ω
21	NC	No connection
22	CF OUT	Color Framing
23	NC	No connection
24	NC	No connection

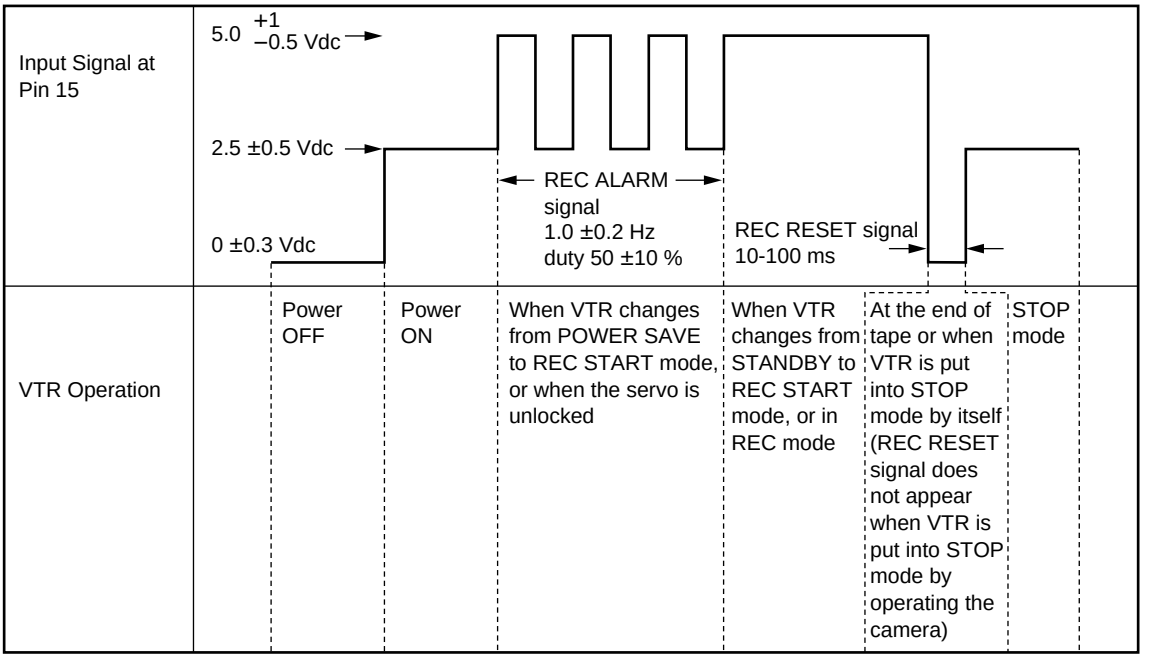
(0 dBu = 0.775 Vrms)

Note 1: Specifications of BATT IND Signal

VTR has a battery voltage detection and warning signal generation circuits and it sends the signal shown below to the camera.

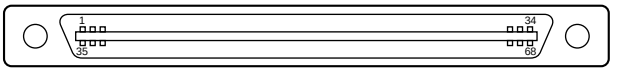
Battery Terminal Voltage (VTR internal battery)	12.0-11.1 Vdc	11.1-10.8 Vdc	10.8 Vdc below
Input Signal at Pin 13	0 V	1.0 ±0.2 Hz duty 50 ±10 %	2-3 Vdc across 300 Ω
LED on Viewfinder	Stays out	Blinks at 1 Hz	Lights up

Note 2: Specifications of REC ALARM Signal


Input Signal at Pin 15
5.0 +1 −0.5 Vdc
2.5 ±0.5 Vdc
0 ±0.3 Vdc
REC ALARM signal
1.0 ±0.2 Hz
duty 50 ±10 %
REC RESET signal
10-100 ms
VTR Operation
Power OFF
Power ON
When VTR changes from POWER SAVE to REC START mode, or when the servo is unlocked
When VTR changes from STANDBY to REC START mode, or in REC mode
At the end of tape or when VTR is put into STOP mode by itself (REC RESET signal does not appear when VTR is put into STOP mode by operating the camera)
STOP mode

CAMERA (68P MALE)

For analog interface (Up side)



(EXTERNAL VIEW)

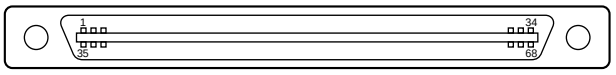
No.	Signal	Specifications
1	UNREG GND	GND for UNREG
2	UNREG GND	GND for UNREG
3	VF UNREG GND	GND for VF UNREG
4	LENS UNREG GND	GND for LENS UNREG
5	UNREG OUT	10.5 V to 17 V
6	UNREG OUT	10.5 V to 17 V
7	VF UNREG OUT	10.5 V to 17 V
8	LENS UNREG OUT	10.5 V to 17 V
9	R IN (X)	No connection
10	B IN (X)	No connection
11	VBS IN (G)	GND for VBS VIDEO
12	Y IN (X)	VS 1.0 Vp-p, Zi = 1 kΩ
13	B-Y IN (X)	756 mVp-p (J) 700 mVp-p (UC) 525 mVp-p (CE)
14	NC	No connection
15	C IN (X)	No connection
16	VBS GENLOCK OUT (X)	1.0 Vp-p ± 6 dB, Zo = 75 Ω
17	RET VIDEO OUT (G)	GND for RET VIDEO
18	MONITOR VIDEO IN (X)	VS 1 Vp-p, Zi = 1 kΩ
19	BATTERY ALARM OUT	Zo = 300 Ω
20	NC	No connection
21	AUDIO CH1 CONT IN	0 V (0 dB) to 7 V (–50 dB or less)
22	MIC 1 IN (Y)	Zi ≧ 600 Ω, –60 dBu balanced
23	NC	No connection
24	SKIN TONE GATE IN	No connection
25	TAPE REM OUT	No connection
26	VTR SYNC IN	No connection
27	RET EN IN	ENABLE; 0 V, DISABLE; +5 V or OPEN
28	PB REF OUT	PB; +4.5 V, CAM; 0 V or OPEN
29	H CONT OUT	No connection
30	ANALOG GND	
31	DIGITAL HD IN	3 Vp-p for Digital
32	COM CONT OUT	5 Vp-p
33	IIC CLOCK IN (CA)	5 Vp-p
34	IIC CLOCK IN (ST)	5 Vp-p

No.	Signal	Specifications
35	UNREG GND	GND for UNREG
36	UNREG GND	GND for UNREG
37	VF UNREG GND	GND for VF UNREG
38	LENS UNREG GND	GND for LENS UNREG
39	UNREG OUT	10.5 V to 17 V
40	UNREG OUT	10.5 V to 17 V
41	VF UNREG OUT	10.5 V to 17 V
42	LENS UNREG OUT	10.5 V to 17 V
43	G IN (X)	No connection
44	R/G/B GND	No connection
45	VBS IN (X)	1.0 Vp-p ±10%, Zi = 75 Ω
46	R-Y IN (X)	756 mVp-p (J) 700 mVp-p (UC) 525 mVp-p (CE)
47	Y/R-Y/B-Y GND	GND for Y/R-Y/B-Y
48	NC	No connection
49	C IN (G)	No connection
50	VBS GENLOCK OUT (G)	GND for GENLOCK
51	RET VIDEO OUT (X)	1.0 Vp-p, Zo = 75 Ω
52	MONITOR VIDEO IN (G)	GND for MONITOR VIDEO
53	VTR START/STOP IN	Zi ≦ 10 kΩ
54	NC	No connection
55	MIC 1 IN (G)	GND for CAM MIC
56	MIC 1 IN (X)	Zi ≧ 600 Ω, –60 dBu balanced
57	NC	No connection
58	NC	No connection
59	AUDIO LEVEL OUT	No connection
60	NC	No connection
61	CF IN	0 V to –5 V
62	REC TALLY OUT	ON; +5 V, OFF; +2.5 V or 0 V, Zo ≧ 20 kΩ
63	VTR SAVE IN	+4.5 V; SAVE, 0 V; STANDBY, Zi ≦ 10 kΩ
64	GND	
65	SD IN/OUT	No connection
66	COM DATA IN	5 Vp-p
67	IIC DATA IN/OUT (CA)	5 Vp-p, 4700 Ω, Pull up
68	IIC DATA IN/OUT (ST)	5 Vp-p, 4700 Ω, Pull up

(0 dBu = 0.775 Vrms)

CAMERA (68P MALE)

For digital interface (Bottom side)



(EXTERNAL VIEW)

No.	Signal	Specifications	No.	Signal	Specifications
1	Y (L) IN		35	Y (1) IN	
2	Y (2) IN		36	Y (3) IN	
3	Y (4) IN	3.3 Vp-p	37	Y (5) IN	3.3 Vp-p
4	Y (6) IN		38	Y (7) IN	
5	Y (8) IN		39	Y (M) IN	
6	R-Y (L) IN		40	R-Y (1) IN	
7	R-Y (2) IN		41	R-Y (3) IN	
8	R-Y (4) IN	3.3 Vp-p	42	R-Y (5) IN	3.3 Vp-p
9	R-Y (6) IN		43	R-Y (7) IN	
10	R-Y (8) IN		44	R-Y (M) IN	
11	B-Y (L) IN		45	B-Y (1) IN	
12	B-Y (2) IN		46	B-Y (3) IN	
13	B-Y (4) IN	3.3 Vp-p	47	B-Y (5) IN	3.3 Vp-p
14	B-Y (6) IN		48	B-Y (7) IN	
15	B-Y (8) IN		49	B-Y (M) IN	
16	DIGITAL GND	GND for DIGITAL	50	DIGITAL GND	GND for DIGITAL
17	DIGITAL BLANKING IN	3.3 Vp-p	51	DIGITAL SAMPLE IN	3.3 Vp-p
18	DIGITAL SYNC IN	3.3 Vp-p	52	DIGITAL VD IN	3.3 Vp-p
19	NC	No connection	53	DIGITAL CF IN	3.3 Vp-p
20	NC	No connection	54	NC	No connection
21	NC	No connection	55	NC	No connection
22	NC	No connection	56	NC	No connection
23	NC	No connection	57	NC	No connection
24	NC	No connection	58	NC	No connection
25	NC	No connection	59	NC	No connection
26	NC	No connection	60	NC	No connection
27	NC	No connection	61	NC	No connection
28	NC	No connection	62	NC	No connection
29	NC	No connection	63	NC	No connection
30	NC	No connection	64	NC	No connection
31	NC	No connection	65	NC	No connection
32	NC	No connection	66	NC	No connection
33	NC	No connection	67	NC	No connection
34	18 MHz IN (G)	GND for 18 MHz	68	18 MHz IN (X)	3.3 Vp-p

1-3-2. Connection Connector

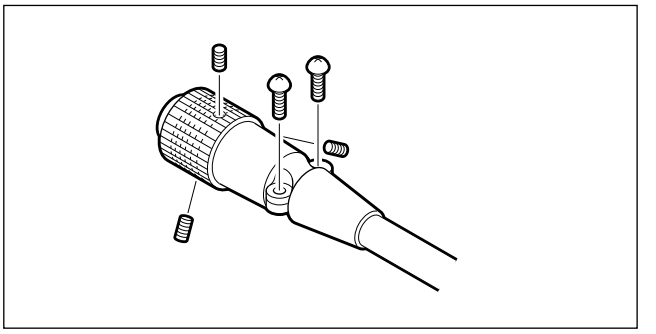
Connection made with the connector panels during installation or service, should be made with the connectors/ complete cable assemblies specified in the following list, or equivalent parts.

Connector Name	Connection Connectors/Cables
SERIAL OUT (BNC)	1-569-370-12 Connector, BNC or BELDEN 8281 cable equivalent
GENLOCK IN MONITOR (BNC)	1-569-370-12 Connector, BNC
REMOTE (8P FEMALE)	1-766-848-11 Plug, 8P Male or CCA-5 cable assembly (option) CCA-5-10 (10 m)/ CCA-5-3 (3 m) or REMOTE cable 1-783-372-11 (supplied with RM-B150, 10m) *1
MIC IN (3P FEMALE)	1-508-084-00 XLR, 3P Male or CANNON XLR-3-12C equivalent
DC IN (4P MALE)	1-508-362-00 XLR, 4P Female or CANNON XLR-4-11C equivalent or Cable assembly (supplied with AC-550) 1-551-577-00 Cable with XLR plugs
DC OUT (4P FEMALE)	1-566-425-11 Plug, 4P Male or HIROSE HR10A-7P-4P equivalent
VTR (26P MALE)	1-564-184-00 Plug, 26P Female or CCZ cable assembly (option) CCZ-2 (2 m)/CCZ-10 (10 m)

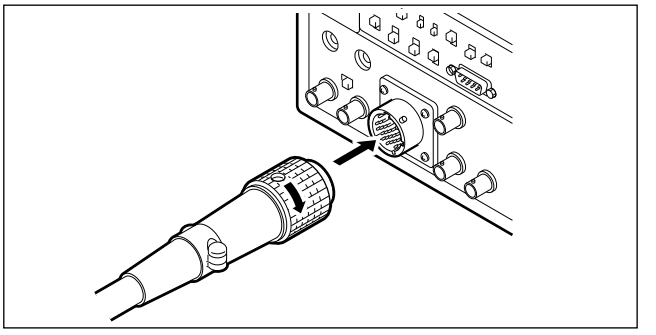
*1 : Use of REMOTE cable enables to monitor video signals.

1-3-3. Removal of CCZ Connector

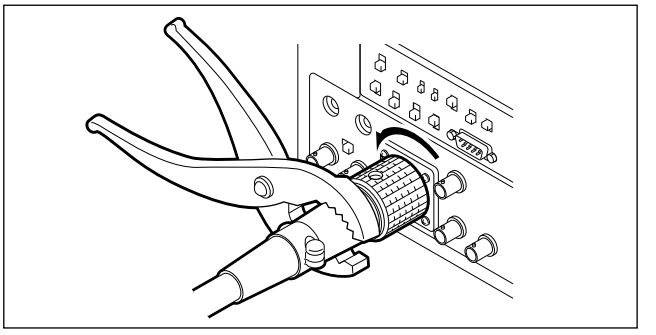
1. Remove the two screws and three setscrews.



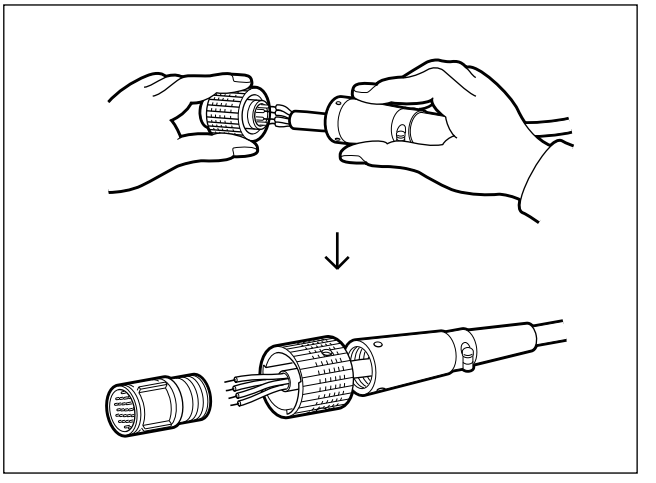
2. Connect the plug to the VTR or camera.



3. Loosen the plug counterclockwise by pliers.



4. Disassemble as illustrated and unsolder.



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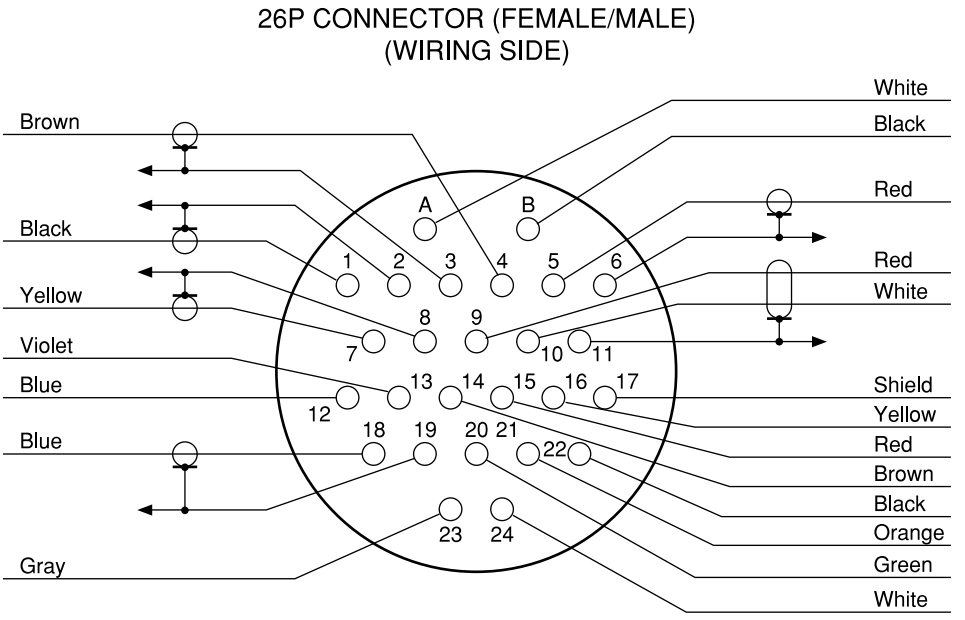
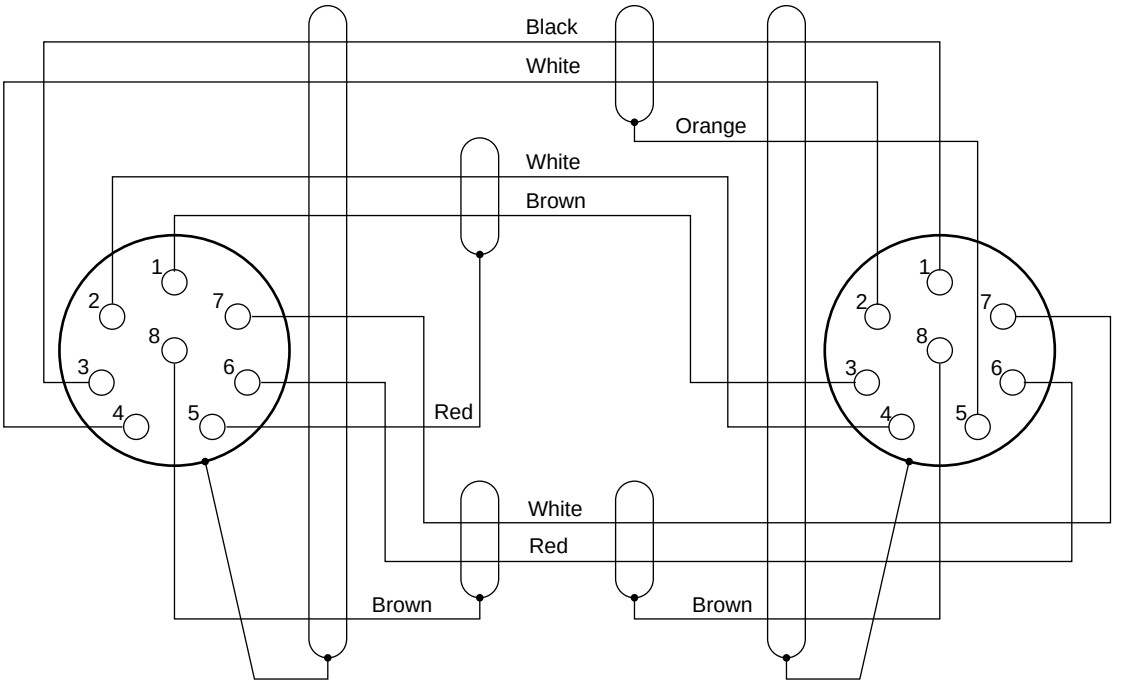
1-3-4. Wiring Diagrams for Cables

CCZ Cable



CCA-5 Cable

(Outer sheath color : White)

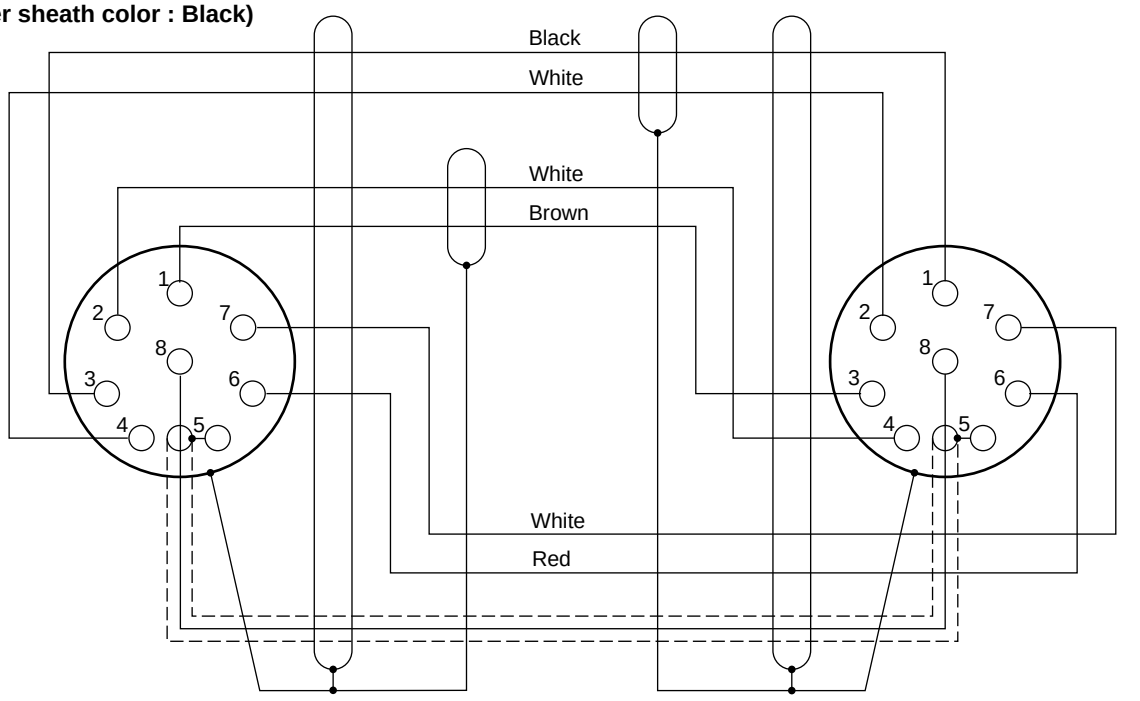


8P CONNECTOR(MALE)
(WIRING SIDE)

8P CONNECTOR(MALE)
(WIRING SIDE)

REMOTE Cable (supplied with RM-B150)

(Outer sheath color : Black)

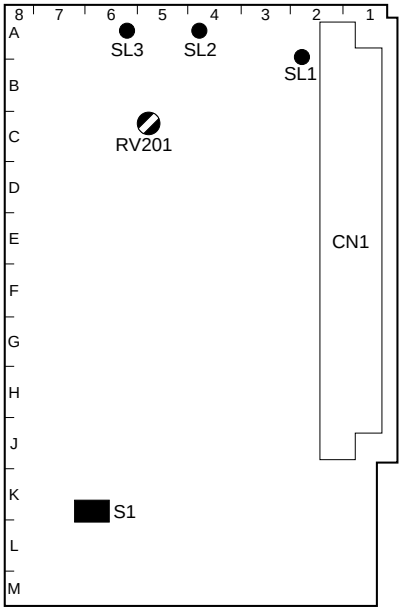


8P CONNECTOR(MALE)
(WIRING SIDE)

8P CONNECTOR(MALE)
(WIRING SIDE)

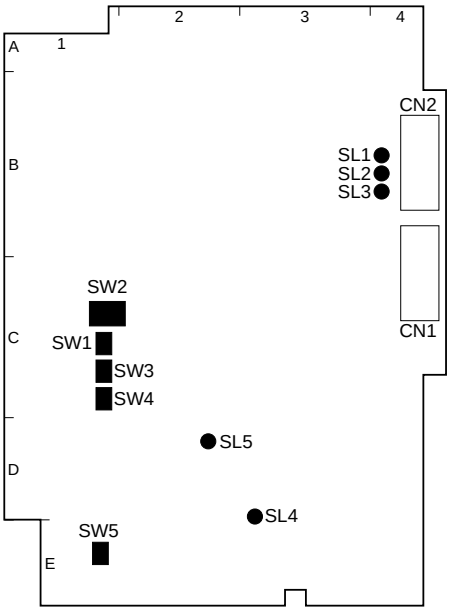
1-4. Function of Switches/Slit Lands/ Control on Circuit Board

VSE-30 board



VSE-30 BOARD (A SIDE)

MB-760 board



MB-760 BOARD (B SIDE)

S1-1: MONITOR/VBS select switch
Selects a signal to be output at MONITOR connector.
MONITOR: Composite signal with Character signal
VBS: Composite Video signal
Factory-set position: MONITOR

S1-2: MIC/AUDIO MONI select switch
Selects an earphone output.
ON: MIC output
OFF: AUDIO MONITOR output
Factory-set position: OFF

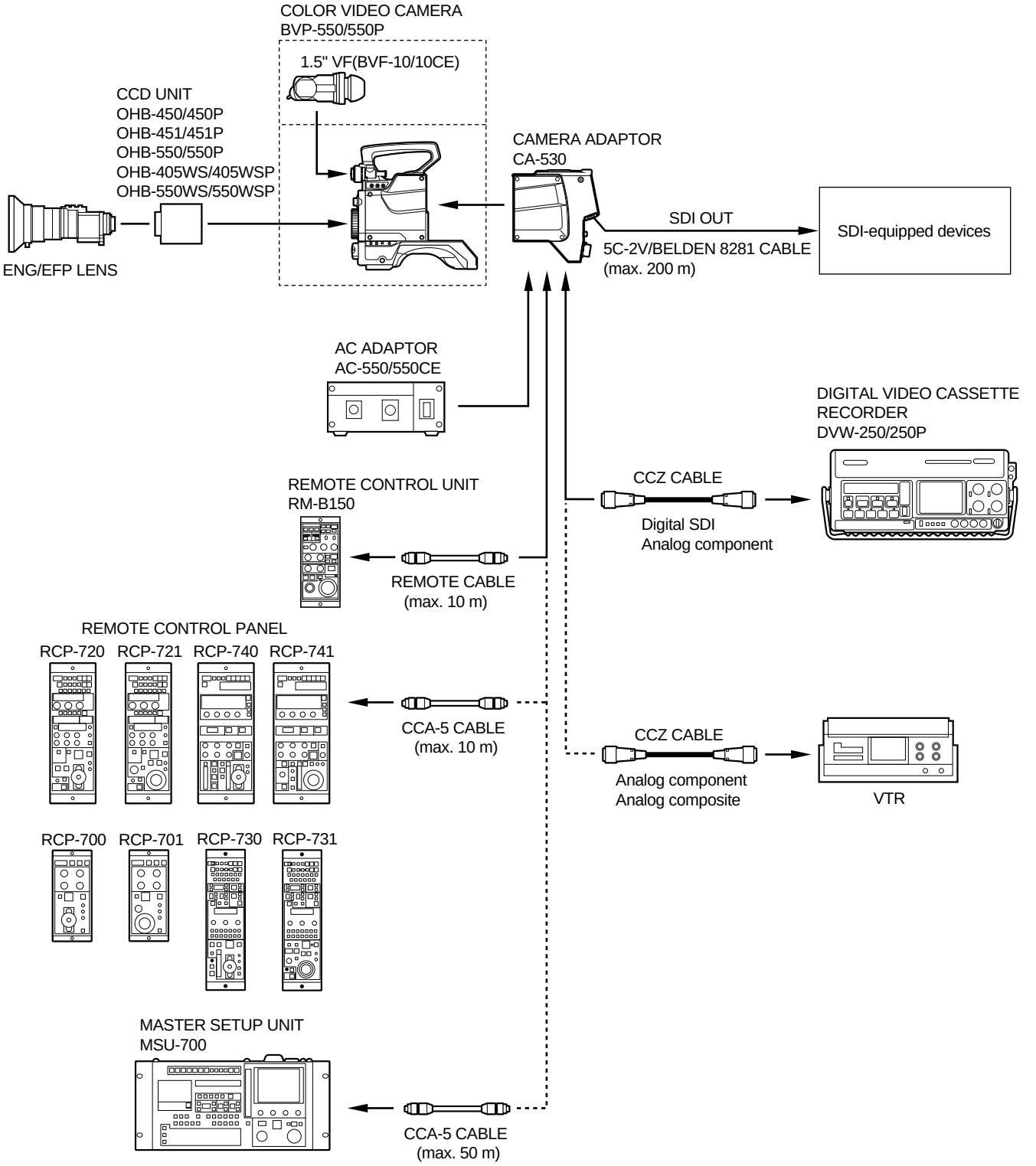
SL1 to SL3: Factory use
Do not short these slit lands.

RV201: Earphone volume control
Adjusts the volume of earphone. Adjust it to suit preferences as necessary.

SW1 to SW5: Circuit protection devices
Refer to Section 2-4 for details.

SL1 to SL5: Factory use
Do not short these slit lands.

1-5. Instance of System Configuration

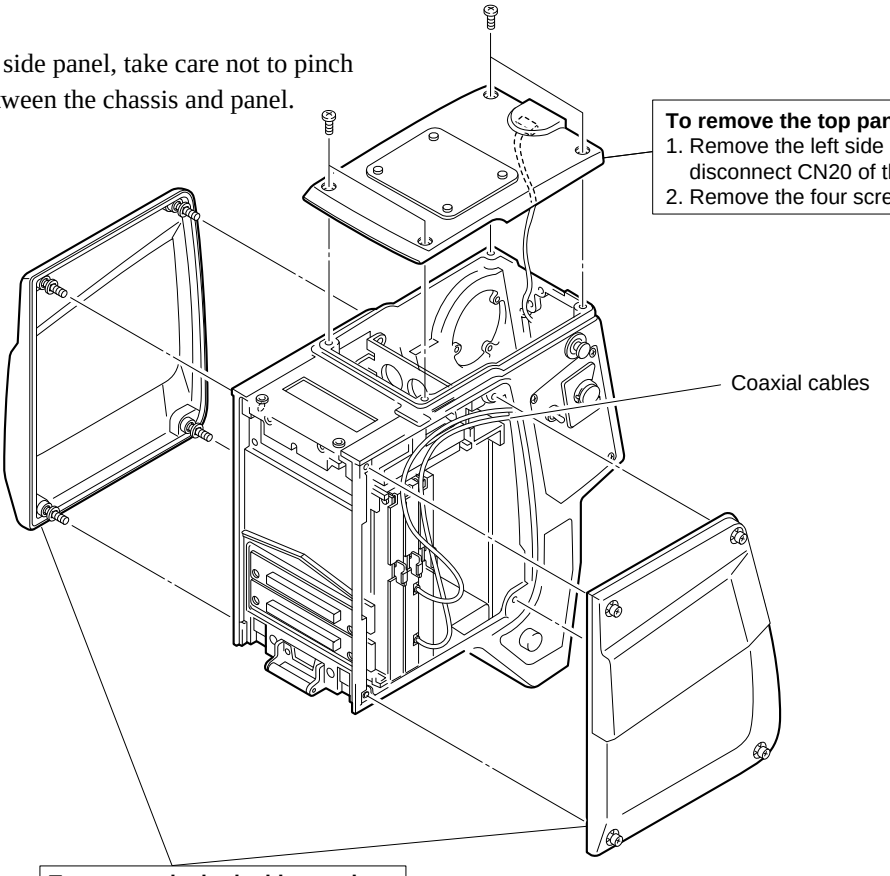


Section 2
Service Overview

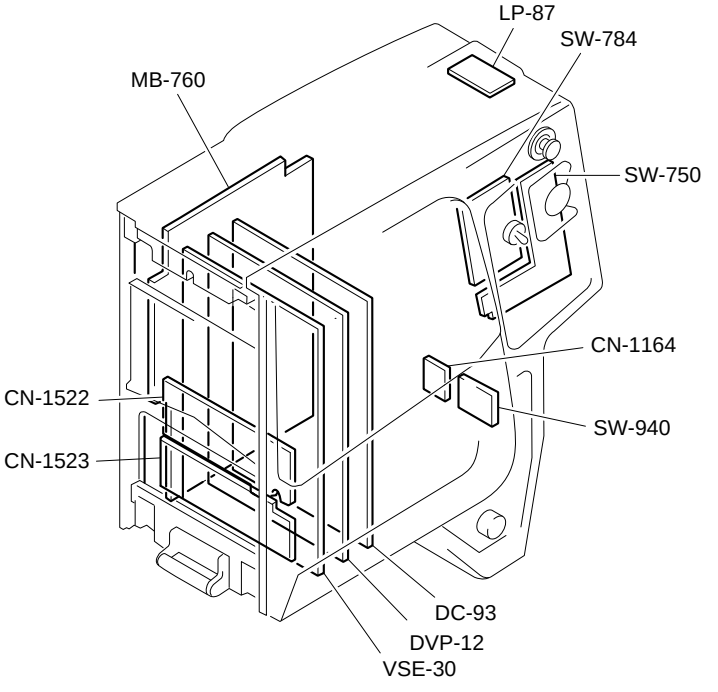
2-1. Removal of Cabinet

Note

- In installing the right side panel, take care not to pinch the coaxial cables between the chassis and panel.


To remove the top panel
1. Remove the left side panel and disconnect CN20 of the MB-760 board.
2. Remove the four screws.
Coaxial cables
To remove the both side panels
Loosen the four screws respectively.

2-2. Location of Printed Circuit Boards



2-3. Circuit Description

DVP-12 board (for digital signal processing)

The DVP-12 board mainly performs encoding to D1 digital format. The 10-bit parallel signals Y, R-Y and B-Y sent from CHU are converted to the D1 digital format SDI signal. And digital audio signals (2-channel) from VSE-30 board are mixed to the SDI signal in synchronization with the H SYNC and V blanking signals sent from CHU.
The SDI signal is split and output to SERIAL OUT (BNC) and CCZ connectors. An output signal at the CCZ connector is automatically selected from SDI or VBS signal, by detecting a signal input at pin 14 of CCZ connector.
In addition, the unit is equipped with the power saving circuit. If the unit enters the SDI OFF mode by selecting the POWER switch, format conversion ICs are reset to turn off the SDI circuit. In this case, the SDI signal cannot be output at the SERIAL OUT connector and only the VBS signal is output at the CCZ connector.
The power block of the DVP-12 board generates +5.0 V and −5.0 V from +5.5 V and −5.5 V supplied from DC-93 board. And it also generates +2.5 V and +3.3 V from +3.6 V. These voltages are used in the board.
Microcomputer is not provided with the CA-530, so communications such as diagnosis between CHU and CA are established through a two-wired serial bus.

VSE-30 board (for analog signal processing)

The VSE-30 board mainly interfaces with a VTR via the CCZ connector to deal with analog audio/video signals, and various control signals. It also converts the analog audio signals into digital form and outputs to the DVP-12 board.
The analog video signals (Y, R-Y, B-Y) from CHU are adjusted in level and are then transmitted to the VTR.
The internal switch (S1-1) selects the VBS or MONITOR signal, sent from CHU, to output to the MONITOR connector. And playback video signal from VTR is adjusted in level and is then sent to CHU.
For input analog audio signals, two channels are available; one is from CHU (as MIC-1) and the other is from CA (as MIC-B). Either CH-1 or CH-2 of the analog audio signals is selected with the AUDIO IND switch and the selected channel is output to the VTR in analog form. The internal switch (S1-2) selects the above-selected MIC signal or audio signal (AUDIO MONITOR) from VTR to output to the earphone.
On the other hand, 2-channel analog audio signals (MIC-1, MIC-B) are both converted into digital form and are then output to the DVP-12 board. And the power supply circuit of +48 V is provided for MIC-B microphone. The supply of +48 V is controlled by the MIC POWER switch on the rear panel. The power block of the VSE-30 board generates +5.0 V and −5.0 V from +5.5 V and −5.5 V supplied from DC-93 board.

DC-93 board (for power supply)

DC +12 V which is supplied from VTR or AC adapter AC-550/550CE (separately available), is sent to CHU as it were. It is also regulated to +5.5 V, +3.6 V and −5.5 V respectively in the DC-93 board. Regulated voltages are supplied to the DVP-12 and VSE-30 boards.
The DC-93 board is equipped with a battery remaining detection circuit. When the battery voltage drops to a certain voltage, the DC-93 board is sent to a battery alarm signal to the LP-87 board to make the indicator illuminate.
In addition, the DC-93 board interconnects various control signals between RCP (Remote Control Panel) and CHU.

2-4. Circuit Protection Device

The MB-760 board is provided with five positive thermistors for power line SW1 to SW5 to protect circuits.This device limits a current by steeply increasing the inner resistance when the device rises to a certain temperature due to overcurrent or high ambient temperature. If the device is activated once, turn off the power and check an equipment concerned; camera adaptor, camera or other equipment connected to the DC IN or REMOTE connector of the camera adaptor. After the cause is eliminated and the device cools off, turn on the power again. If there is no trouble, the unit will operate normally. It takes about a minute for the device to cool off after powering off the unit.

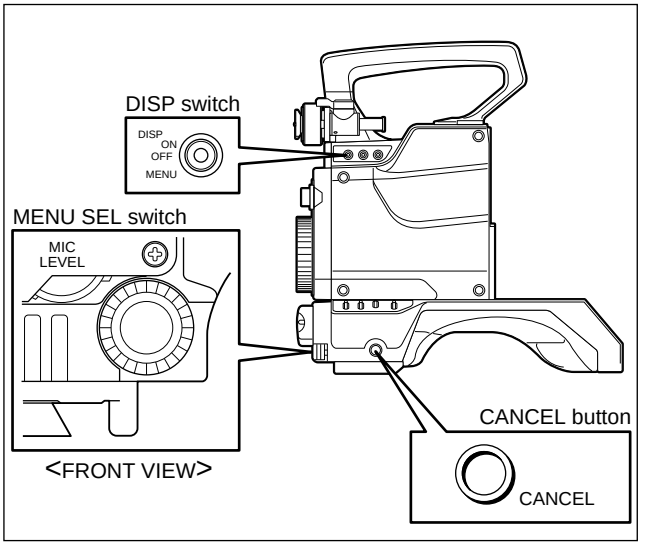
Ref No.	Address	Circuit/Equipment protected
SW1	C1	Circuits in the camera and camera adaptor
SW3	C1	
SW4	C1	
SW2	C1	Equipment connected to DC OUT connector
SW5	E1	Equipment connected to REMOTE connector

2-5. Self-Diagnosis

The CA-530 has a diagnosis mode used for self-diagnosis of every plug-in board. The diagnosis page is displayed on the viewfinder screen of the camera.

- Equipment required
  Color Video Camera BVP-550/550P
  CCD Unit OHB-450/550 series
  Supply power from an AC adaptor AC-550/550CE or VTR.

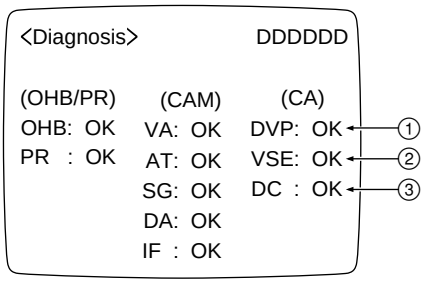
- Switches and Button



- Operation

1. Set POWER switch of the camera adaptor to SDI ON position.
2. Set DISP switch to MENU position. Operation menu will be displayed.
3. Rotate MENU SEL switch to display “Diagnosis” page and then press MENU SEL switch.
4. The menu page is returned to the previous page every time CANCEL button is pressed.
5. To exit Setup menu, set DISP switch to OFF.

• Viewfinder Screen



• Display Descriptions

Marks	Board	Judging Point	Expected Abnormality
①	DVP-12	+5.0 V, –5.0 V , +3.3 V	• Power voltage for the board is out of specs. * • Improper connection of the board
②	VSE-30	+5.0 V, –5.0 V	• Power voltage for the board is out of specs. * • Improper connection of the board
③	DC-93	+5.5 V, +3.5 V	• Power voltage for the board is out of specs. * • Improper connection of the board

* Only when no video signal is input.

Refer to BVP-550/550P maintenance manual for descriptions on columns of BVP and OHB.

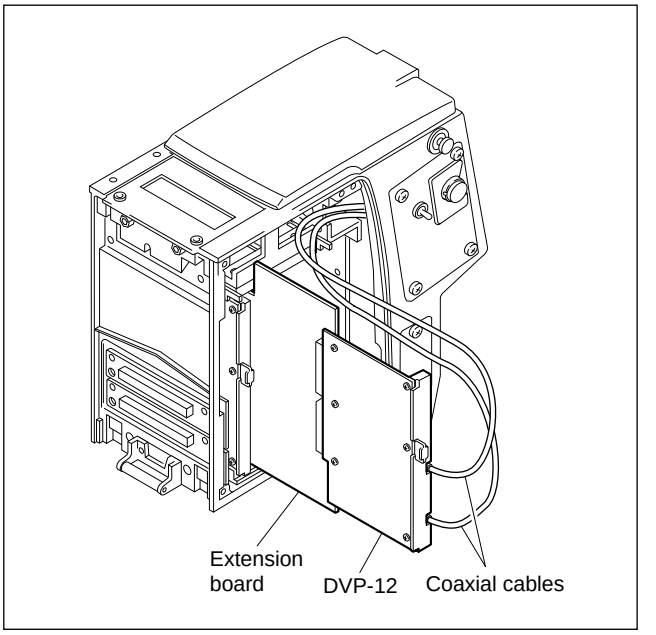
2-6. Extension Board

The extension board is available separately for check or adjustment of some printed circuit boards.

Extension Board	Sony P/N	To be extended
EX-464	J-6395-040-A	DVP-12 VSE-30 DC-93 Plug-in boards for BVP-550/550P

Note in extending DVP-12 board

Remove the DVP-12 board referring to Section 2-7 and extend the board. After extending the board, be sure to reconnect the two coaxial cables.



2-7. Disconnecting/Connecting Plug-In Board

Preparation

Turn off the power.

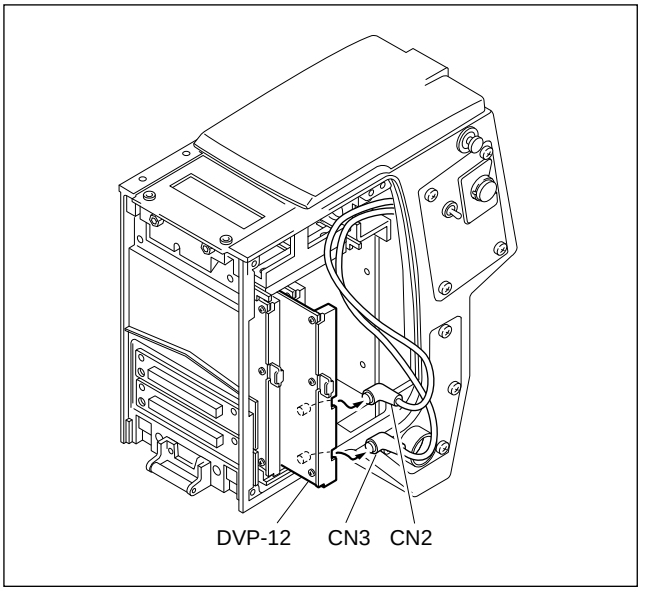
DVP-12 Board

Disconnecting

Pull out the DVP-12 board about 3 cm and remove the coaxial connectors CN2 and CN3.

Connecting

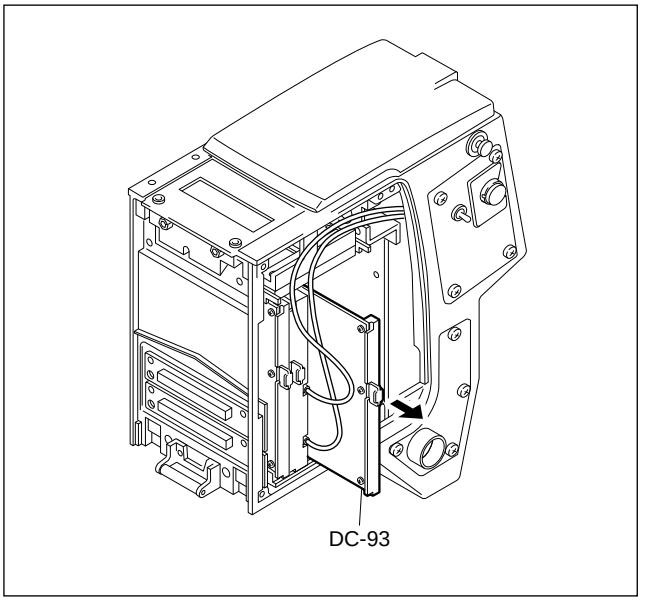
1. Insert the DVP-12 board halfway along the board rail.
2. Connect the coaxial cable extending from the VTR connector to CN2 and the cable from the SERIAL OUT connector to CN3.
3. Then push the board as far as it connects to the mother board connector.



DC-93 Board

Disconnecting

When pulling out the DC-93 board, route the two coaxial cables extending from the DVP-12 board over the DC-93 board.



2-8. Disconnecting/Connecting Flexible Card Wire

The two flexible card wires are used between the MB-760 and CN-1523 boards, MB-760 and CN-1524 boards respectively. Take care not to break these flexible card wires. This shorten the wire life.

Disconnecting

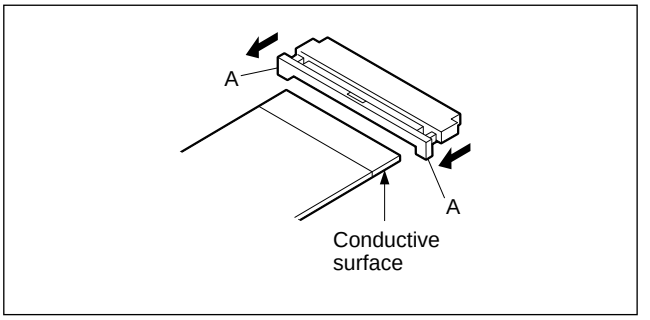
1. Turn off the power.
2. Slide portions A in the direciton of the arrow to unlock and pull out the flexible card wire.

Connecting

Notes

- Be careful not to insert the flexible card wire obliquely.
- Check that the conductive surface of the flexible card wire is not soiled with dust.

1. Slide portions A in the direction of the arrow and insert the flexible card wire as far as it will go with the conductive surface down.
2. Slide portions A in the reverse direction to lock.

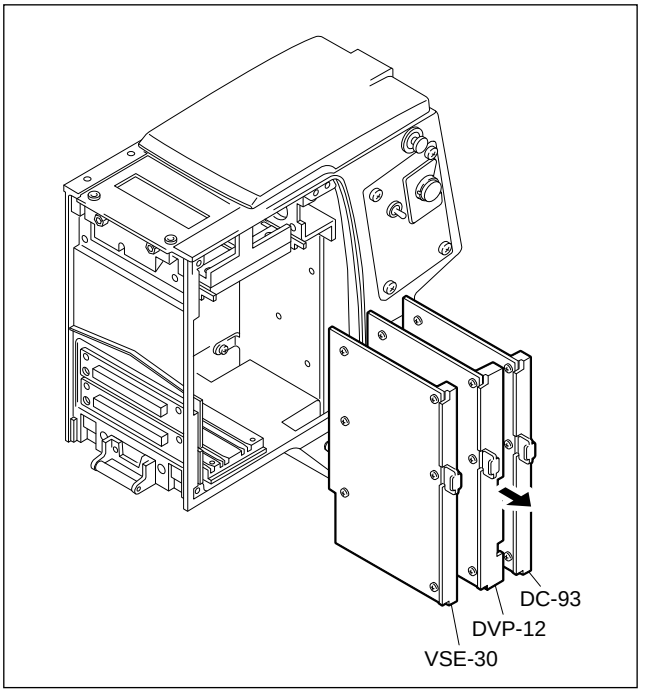


2-9. Replacement of Boards

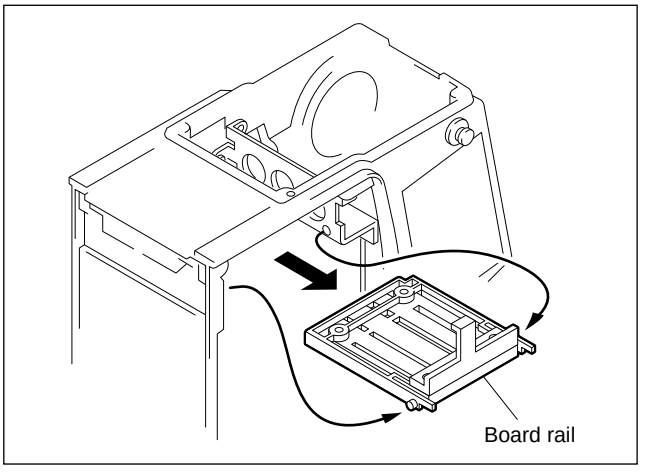
2-9-1. Disconnecting/Connecting CN-1522 Board

The 68-pin connector mounted on the CN-1522 board cannot be replaced. If it is defective, replace the CN-1522 board itself.

1. Remove the right and left side panels referring to Section 2-1.
2. Remove the three plug-in boards (DC-93, DVP-12 and VSE-30) referring to Section 2-7.

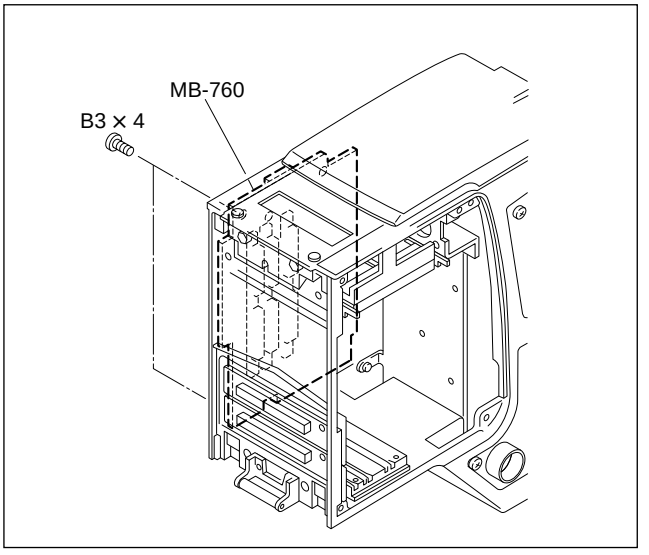


3. Pull out the board rail while pinching both ends of rail.

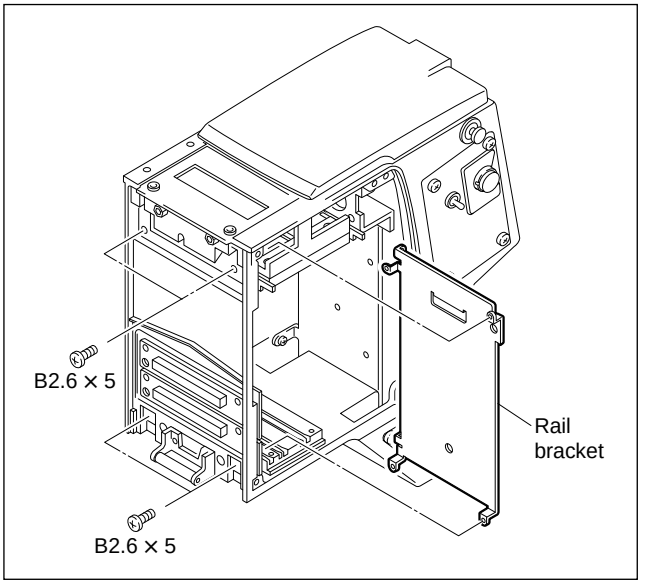


http://getMANUAL.com

4. Remove the two screws.



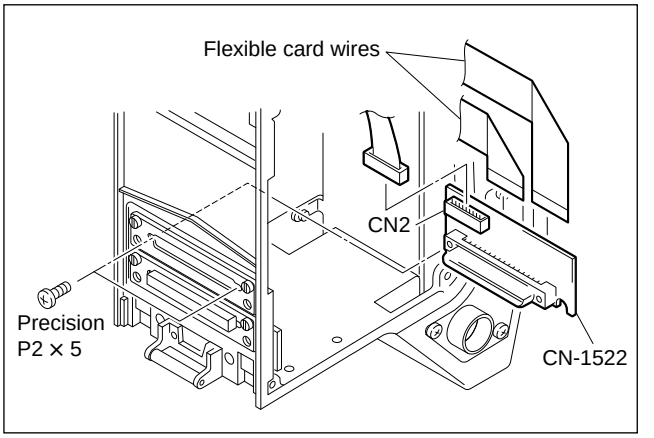
5. Remove the four screws and remove the rail bracket.



6. Remove the two screws securing the CN-1522 board. Remove the connector and flexible card wires as shown in the figure.

Note

Refer to Section 2-8 before disconnecting or connecting the flexible card wire.

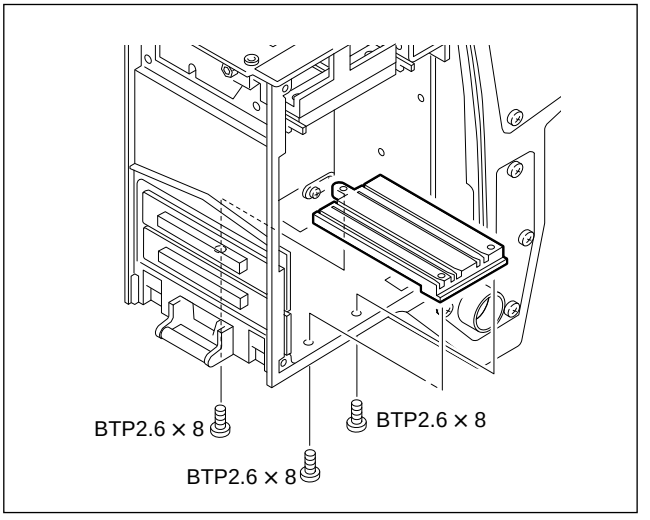


7. Install a new board in the reverse order of removal.

2-9-2. Disconnecting/Connecting CN-1523 Board

The 68-pin connector mounted on the CN-1523 board cannot be replaced. If it is defective, replace the CN-1522 board itself.

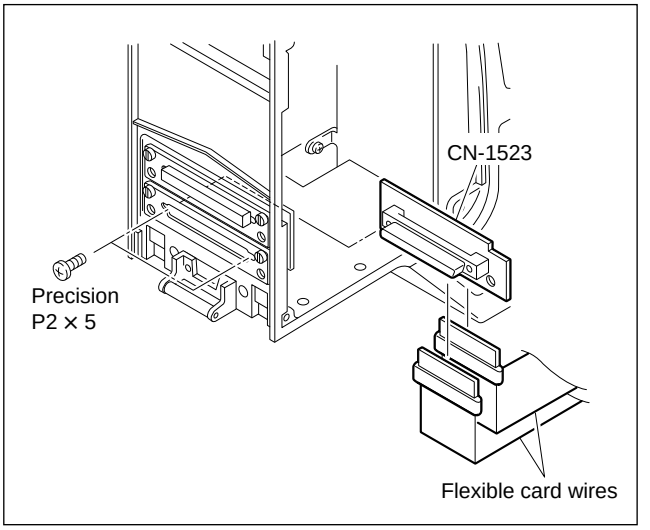
1. Perform procedures 1 to 5 in Section 2-9-1.
2. Remove the three screws to remove the board rail.



3. Remove the two screws securing the CN-1523 board. Remove the connector and flexible card wires as shown in the figure.

   Note

   Refer to Section 2-8 before disconnecting or connecting the flexible card wire.



4. Install a new board in the reverse order of removal.

2-9-3. Adjustment After Replacement of Board

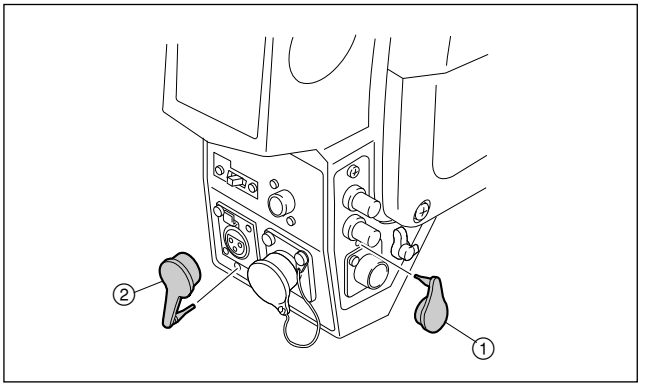
If no adjustment item is listed, no adjustment is required after replacement.

Board	Adjustment required
CN-1164	—
CN-1522	—
CN-1523	—
DC-93	Battery Alarm set adjustment
DVP-12	—
LP-87	—
MB-760	—
SW-750	—
SW-784	—
SW-940	—
VSE-30	—

2-10. Recommended Replacement Part

Parts listed below are recommended replacement parts. They are subject to cracks with the lapse of time. Check sometimes by visual, and replace as necessary.

No.	Description	Sony P/N
①	CONNECTOR, COVER (for DC IN connector)	3-187-015-01
②	CONNECTOR, CAP (for MIC IN connector)	3-605-338-01



2-11. Notes on Repair Parts

1. **WARNING**

Safety Related Components Warning

Components marked ⚠ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.

Parts list has the present standardized repair parts.

3. Stock of Parts

Parts marked with “o” at SP(Supply Code) column of the spare parts list may not be stocked. Therefore, the delivery date will be delayed.

4. Units Representation

The following represented units are changed or omitted in writing.

Units		Representation
Capacitance	μF	uF
Inductance	μH	uH
Resistance	Ω	Abbreviation

5. Destination Representation

The part indicated “For J/SY” in the spare parts list is used in the unit written below.

For J : The part is used in a unit for Japan.

For SY : The part is used in a unit for worldwide regions.

Section 3
Electrical Alignment

3-1. Preparation

3-1-1. Equipment Required

Fixture:

Extension board EX-464
(Sony P/N : J-6395-040-A, Option)

Measuring Equipment:

- Frequency counter
  Advantest TR5821AK or equivalent
- Oscilloscope
  Tektronix 2465B or equivalent
- Digital waveform monitor/Vectorscope
  Tektronix WFM601i or equivalent
- Analog composite waveform monitor/Vectorscope
  Tektronix 1750 or equivalent (for NTSC)
  Tektronix 1751 or equivalent (for PAL)
- Digital voltmeter
  Advantest TR6450 or equivalent
- DC variable power supply
- Audio generator

Peripheral Equipment:

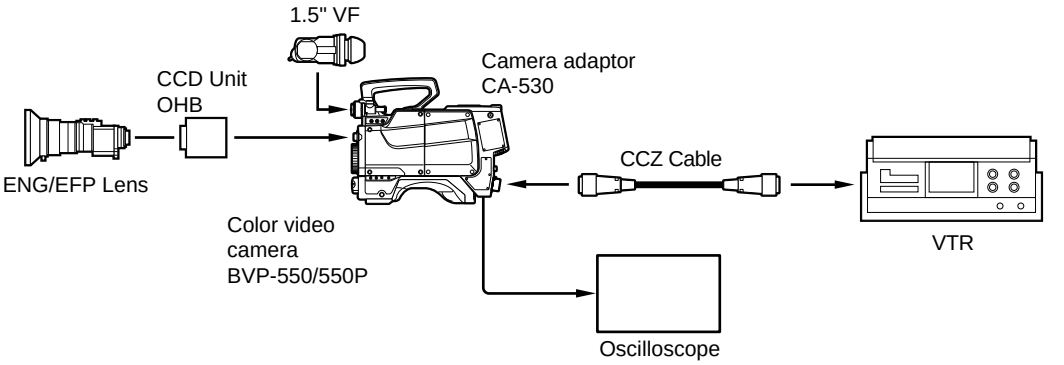
- Color video camera
  BVP-550/550P
- CCD unit
  OHB-450/451/405WS/550/550WS series
- AC adaptor
  AC-550/550CE
- Viewfinder
  BVF-10/10CE
- Video cassette recorder
  With CCZ connector (26P) provided

3-1-2. Notes on Adjustments

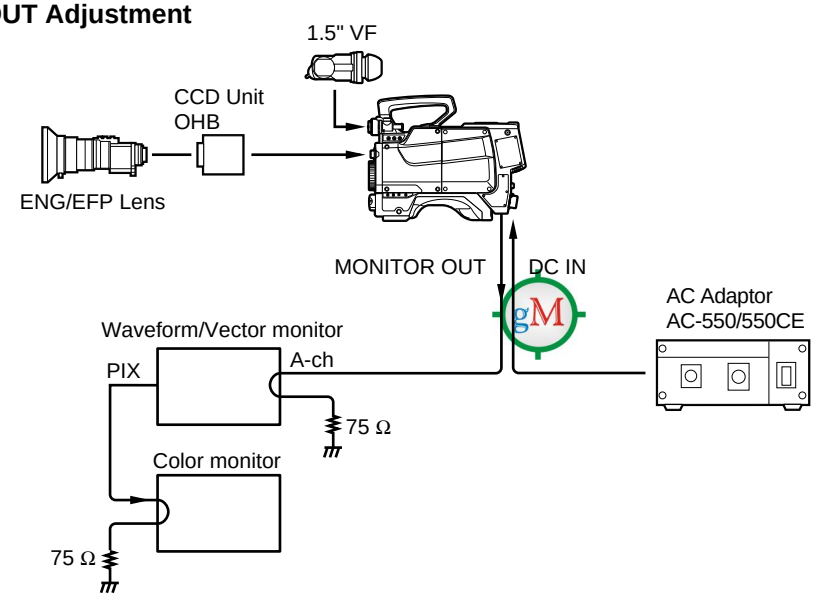
- All measuring equipment shall be calibrated.
- Also the alignment for BVP-550/550P, OHB and so on shall be completed.
- To adjust each plug-in board, extend using the extension board.
- About ten-minute warm-up time is allowed before beginning adjustment.
- The waveforms differ according to the specifications (TV standard and encoded level) of a camera connected to the unit during adjustment.
  In this manual, every waveform corresponding to the specifications is given.

3-1-3. Connection

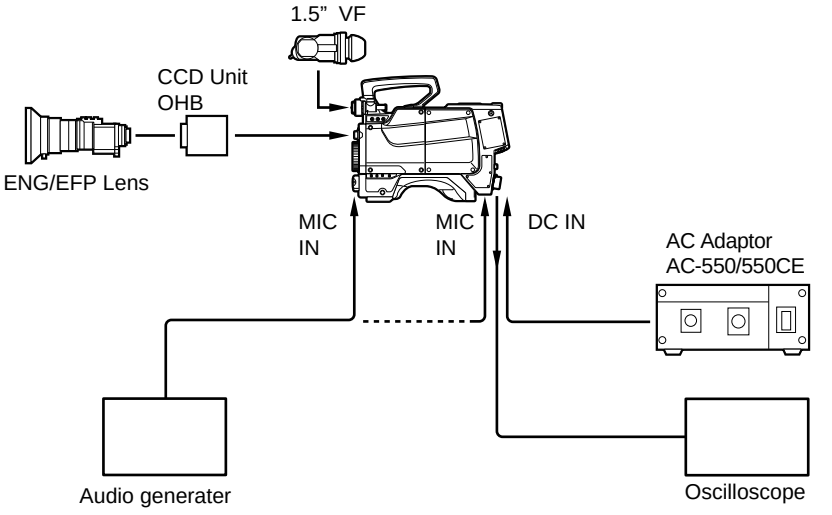
Video Adjustment



MONITOR OUT Adjustment



MIC Level Adjustment

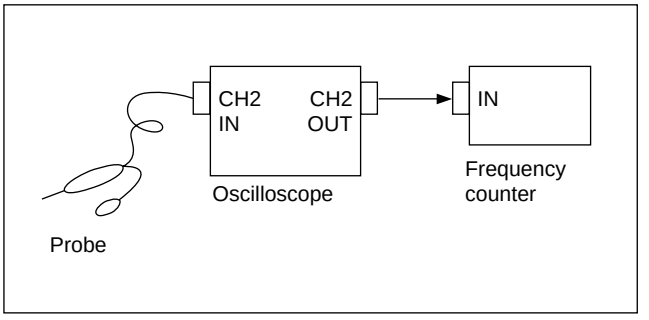


3-2. Free-run Frequency Adjustment

Board: DVP-12 board
Equipment: Frequency counter, Oscilloscope

Preparations

- Set the POWER switch to SDI OFF side.
- About ten-minute warm-up time is allowed before beginning adjustment.
- Connect a frequency counter as shown in the figure.



Adjustment Procedure

Test Point: TP2/DVP-12
GND: TP34/extension board (extending DVP-12)
Adjustment Point: ⊘RV1 (VCO FREERUN)/DVP-12
Specifications: 27.0 ±0.1 MHz

3-3. Battery Alarm Set Adjustment

Board: DC-93 board
Equipment: Digital voltmeter, Oscilloscope
DC variable power supply

Notes

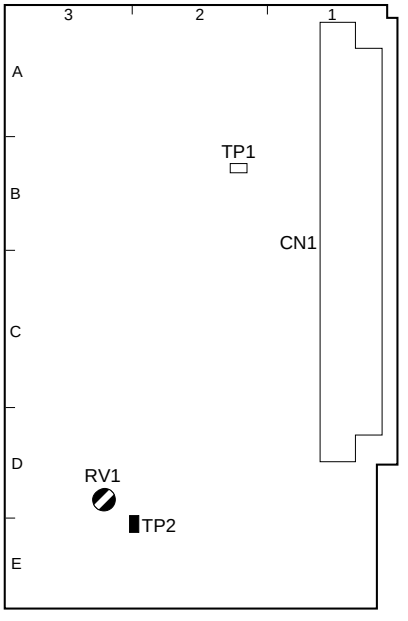
- Adjustment for ⊘RV1 is very critical. Do not turn it so far as the circuit normally activates.
- Be sure to connect the viewfinder to the camera during adjustment.

Preparation

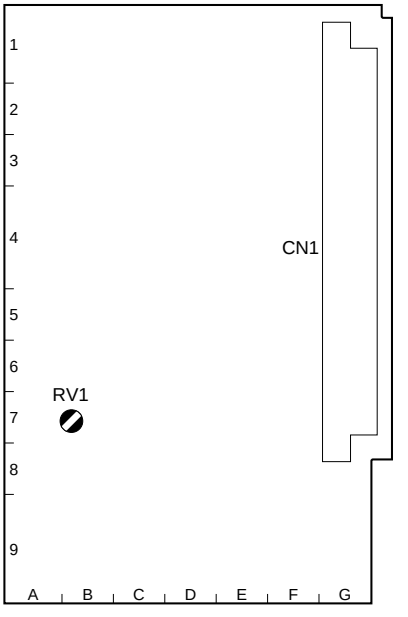
- Supply about +13 Vdc from the DC variable power supply via the DC IN connector.

Adjustment Procedures

1. Turn ⊘RV1/DC-93 fully clockwise.
2. Measure voltage at TP84 (GND: GND A)/extension board (extending DC-93).
3. Adjust the voltage at TP84 for +11.2 ±0.05 V.
4. Slowly turn ⊘RV1 counterclockwise observing the waveform at TP19/extension board on the oscilloscope.
5. Adjust ⊘RV1 so that an 1.0 Hz, 8.0 Vp-p rectanguler wave just appears.



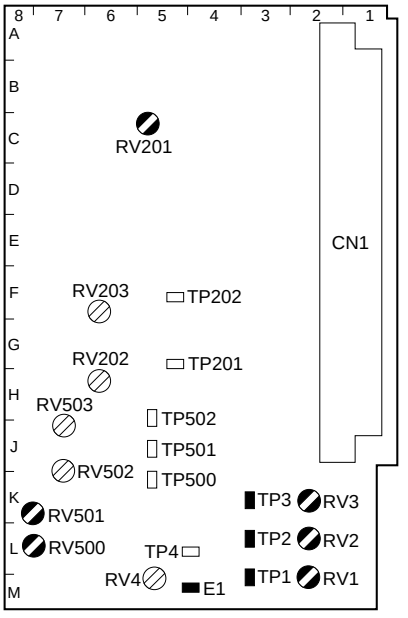
DVP-12 BOARD (A SIDE)



DC-93 BOARD (A SIDE)

3-4. VSE-30 Board Adjustment

⊘RV201 on the VSE-30 board adjusts the audio level of the earphone output, and it can be set according to a customer's preference. Adjust it to suit the preferred level as necessary.
When replacing the ⊘RV500 or ⊘RV501, adjust to its mechanical center position.



VSE-30 BOARD (A SIDE)

3-4-1. Y Level Adjustment

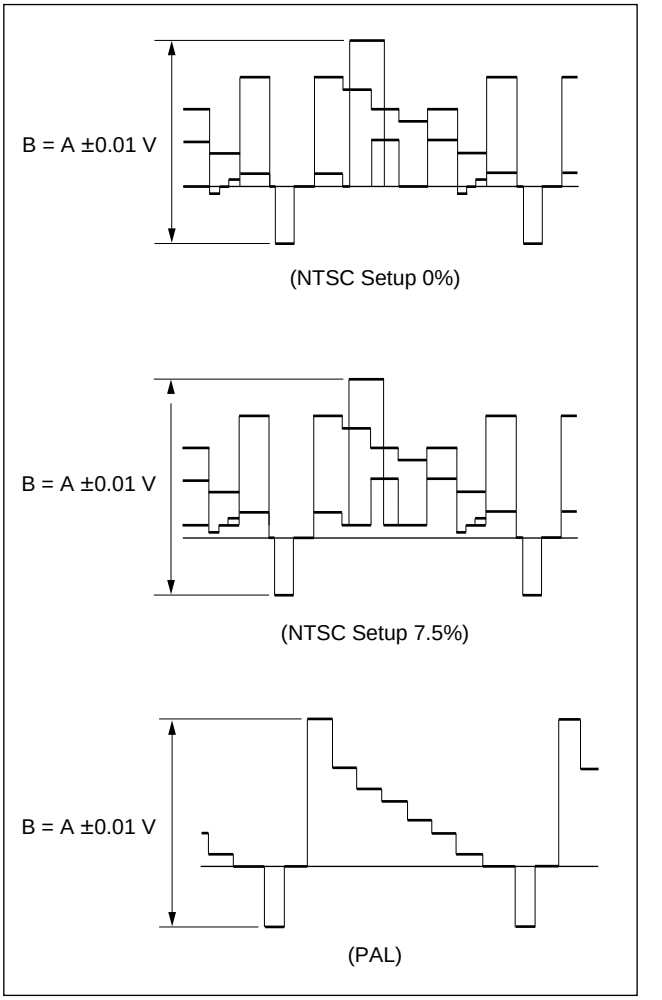
Equipment: Oscilloscope (20 MHz B/W LIMIT ⇨ ON)

Preparations

- Connect each equipment referring to Section 3-1-3 "Connection – Video Adjustment".
- Connect a VTR to the VTR connector. If a VTR cannot be prepared, short between TP3 and TP4 on the extension board (extending VSE-30) with 75 Ω.
- Setting of camera side panel
  OUTPUT/DCC switch ⇨ BARS

Adjustment Procedures

1. Measure the video level A at TP14 (GND:GND A) / extension board (extending VSE-30).
2. Test Point: TP1/VSE-30
   GND: E1/VSE-30
   Adjustment Point: ⊘RV1 (CAM Y LVL)/VSE-30
   Specifications: B = A ±0.01 V



3-4-2. R-Y Level Adjustment

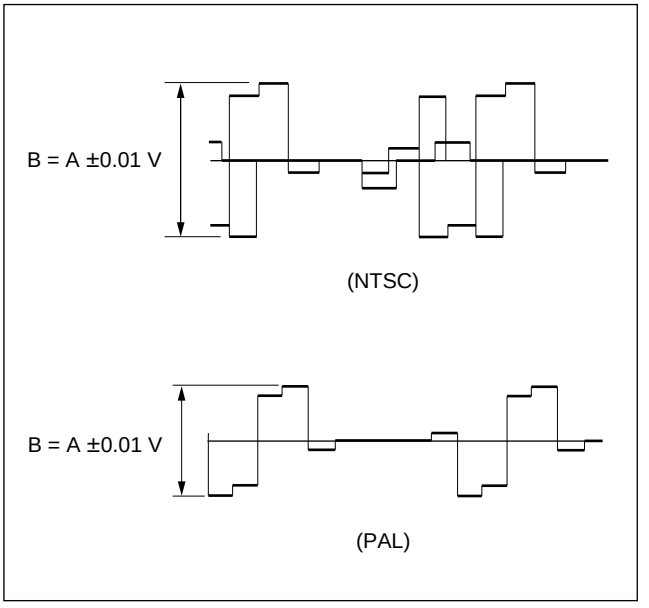
Equipment: Oscilloscope (20 MHz B/W LIMIT ⇨ ON)

Preparations

- Connect each equipment referring to Section 3-1-3 “Connection – Video Adjustment”.
- Connect a VTR to the VTR connector. If a VTR cannot be prepared, short between TP7 and TP8 on the extension board (extending VSE-30) with 75 Ω.
- Setting of camera side panel
  OUTPUT/DCC switch ⇨ BARS

Adjustment Procedures

1. Measure the video level A at TP16 (GND:GND A) / extension board (extending VSE-30).
2. Test Point: TP3/VSE-30
   GND: E1/VSE-30
   Adjustment Point: ◓RV2 (CAM R-Y LVL)/VSE-30
   Specifications: B = A ±0.01 V



3-4-3. B-Y Level Adjustment

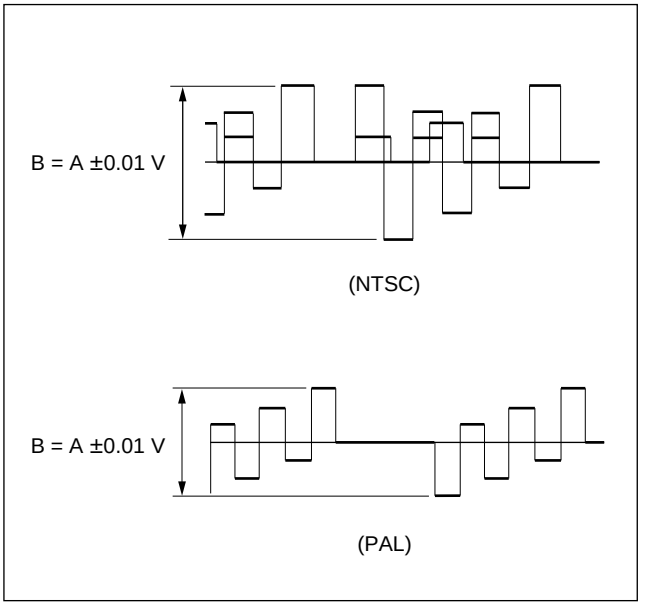
Equipment: Oscilloscope (20 MHz B/W LIMIT ⇨ ON)

Preparations

- Connect each equipment referring to Section 3-1-3 “Connection – Video Adjustment”.
- Connect a VTR to the VTR connector. If a VTR cannot be prepared, short between TP5 and TP6 on the extension board (extending VSE-30) with 75 Ω.
- Setting of camera side panel
  OUTPUT/DCC switch ⇨ BARS

Adjustment Procedures

1. Measure the video level A at TP18 (GND:GND A)/ extension board (extending VSE-30).
2. Test Point: TP2/VSE-30
   GND: E1/VSE-30
   Adjustment Point: ◓RV3 (CAM B-Y LVL)/VSE-30
   Specifications: B = A ±0.01 V



Notes in Finishing Adjustment

- Disconnect the VTR from the VTR connector.
- Setting of camera side panel
  OUTPUT/DCC switch ⇨ CAM/DCC OFF

3-4-4. MONITOR Level Adjustment

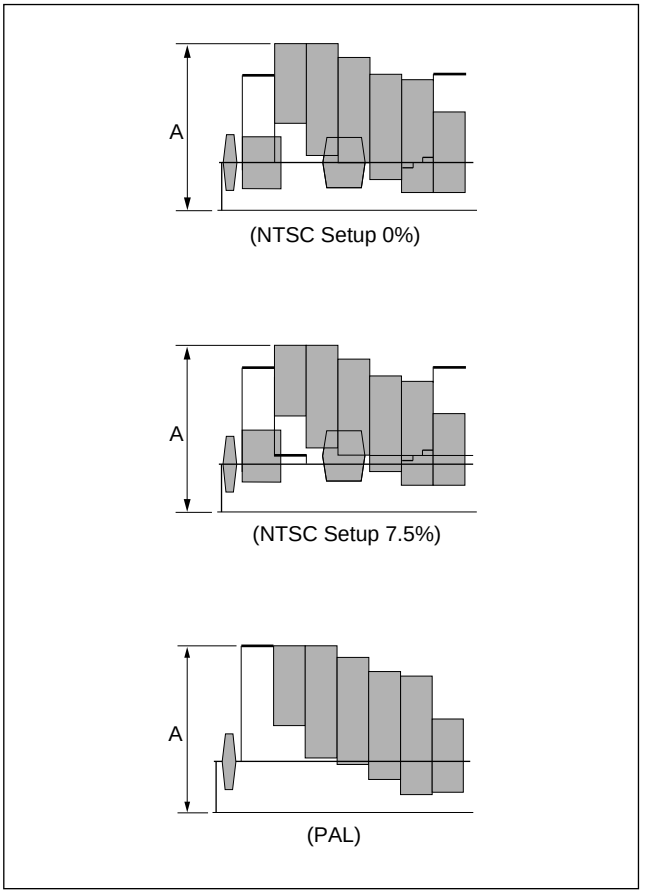
Equipment: Waveform monitor

Preparations

- Connect each equipment referring to Section 3-1-3 “Connection – MONITOR OUT Adjustment”.
- Settings of camera side panel
  OUTPUT/DCC switch ⇨ BARS
  RGB/ENC switch ⇨ ENC

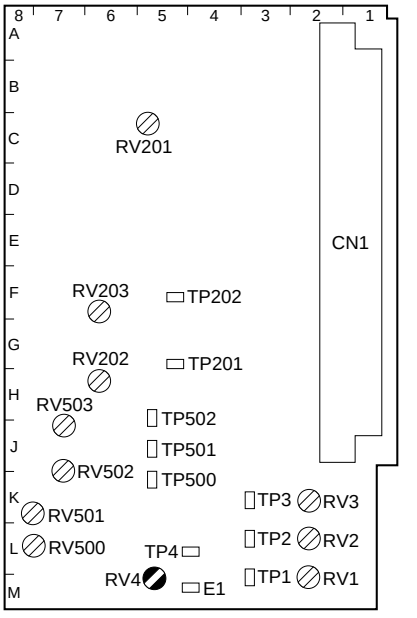
Adjustment Procedure

Test Point: MONITOR connector/CA-530
Adjustment Point: ◪RV4 (MONI OUT LEVEL) /VSE-30
Specifications: A = 1.00 ±0.05 Vp-p



Note in Finishing Adjustment

- Setting of camera side panel
  OUTPUT/DCC switch ⇨ CAM/DCC OFF



VSE-30 BOARD (A SIDE)

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3-4-5. Audio Level Output Adjustment (1)

Equipment: Oscilloscope, Audio generator

Preparations

- Connect each equipment referring to Section 3-1-3 “Connection – MIC Level Adjustment”.
- AUDIO IND switch/at the right rear ⇨ CH1
- Setting of camera front panel
  MIC LEVEL control ⇨ ↻fully clockwise
- Input an 1 kHz, −60 dBu (2.2 mVp-p) sine wave from the audio generator to the MIC connector of the BVP-550/550P.

Adjustment Procedure

Test Point: TP80 (GND:GND A)
/extension board (extending VSE-30)
Adjustment Point: ⊘RV202/VSE-30
Specifications: A = 390 ±10 mVp-p

3-4-6. Audio Level Output Adjustment (2)

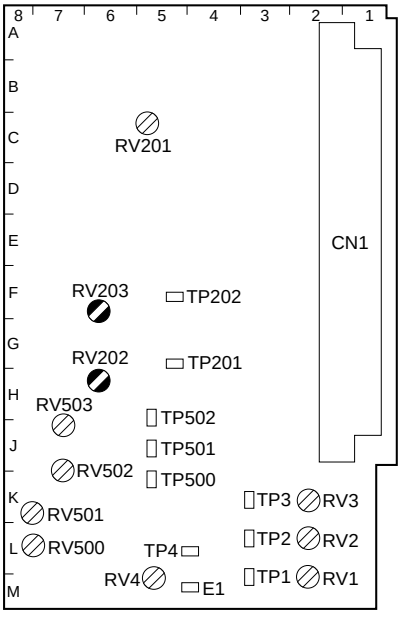
Equipment: Oscilloscope, Audio generator

Preparations

- Connect each equipment referring to Section 3-1-3 “Connection – MIC Level Adjustment”.
- AUDIO IND switch/at the right rear ⇨ CH2
- MIC LEVEL control/at the right rear ⇨ ↻fully clockwise
- Input an 1 kHz, −60 dBu (2.2 mVp-p) sine wave from the audio generator to the MIC connector of the CA-530.

Adjustment Procedure

Test Point: TP80 (GND:GND A)
/extension board (extending VSE-30)
Adjustment Point: ⊘RV203/VSE-30
Specifications: A = 390 ±10 mVp-p



VSE-30 BOARD (A SIDE)

3-4-7. MIC A/D Conversion Level Adjustment (1)

Equipment: Oscilloscope, Audio generator

Preparations

- Connect each equipment referring to Section 3-1-3 “Connection – MIC Level Adjustment”.
- AUDIO IND switch/at the right rear ⇨ CH1
- Setting of camera front panel
  MIC LEVEL control ⇨ ↻fully clockwise
- Input an 1 kHz, −60 dBu (2.2 mVp-p) sine wave from the audio generator to the MIC connector of the BVP-550/550P.

Adjustment Procedure

Test Point: TP502/VSE-30
Adjustment Point: ◓RV503/VSE-30
Specifications: A = 775 ±50 mVp-p

3-4-8. MIC A/D Conversion Level Adjustment (2)

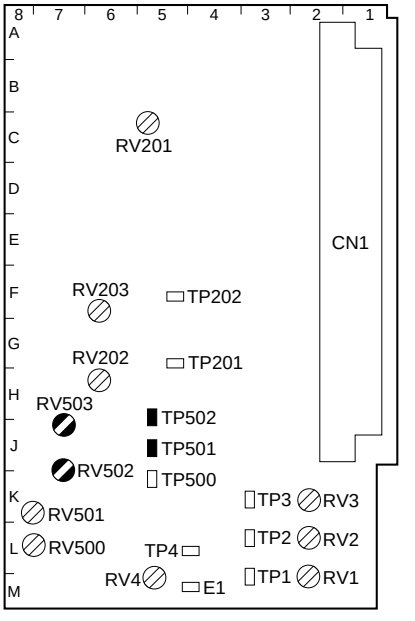
Equipment: Oscilloscope, Audio generator

Preparations

- Connect each equipment referring to Section 3-1-3 “Connection – MIC Level Adjustment”.
- AUDIO IND switch/at the right rear ⇨ CH2
- MIC LEVEL control/at the right rear
  ⇨ ↻fully clockwise
- Input an 1 kHz, −60 dBu (2.2 mVp-p) sine wave from the saudio generator to the MIC connector of the CA-530.

Adjustment Procedure

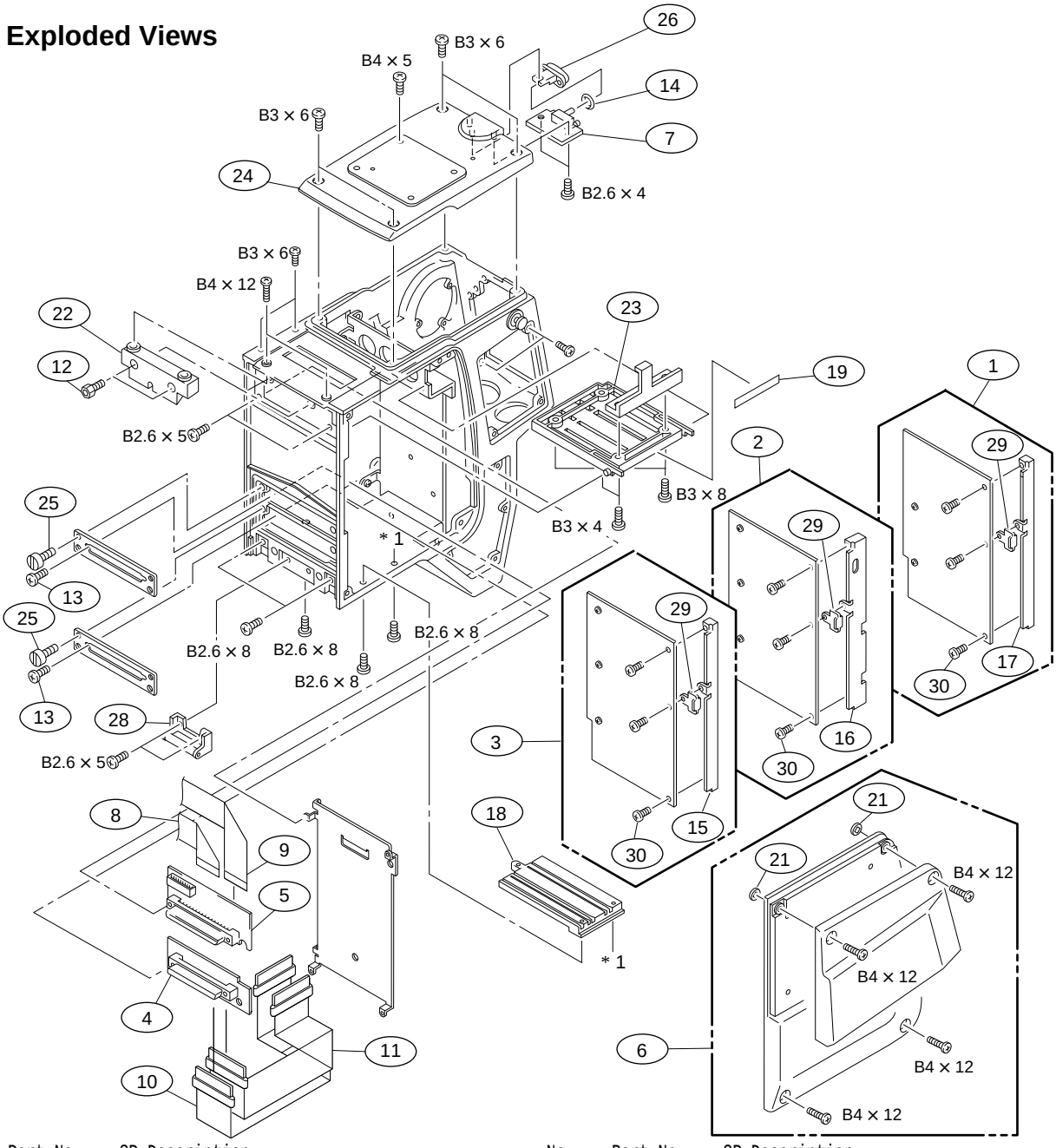
Test Point: TP501/VSE-30
Adjustment Point: ◓RV502/VSE-30
Specifications: A = 775 ±50 mVp-p



VSE-30 BOARD (A SIDE)

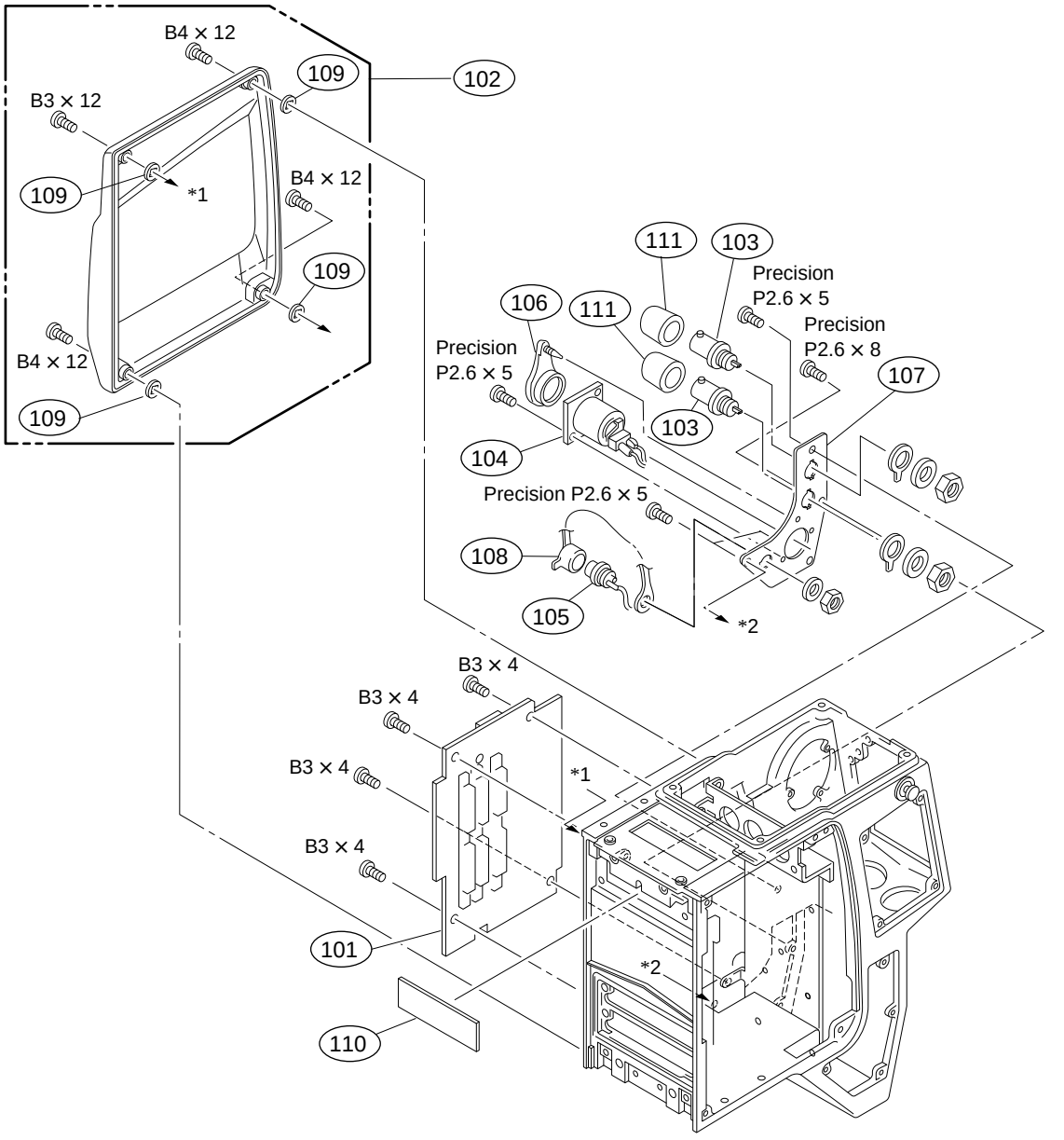
Section 4
Spare Parts

4-1. Exploded Views

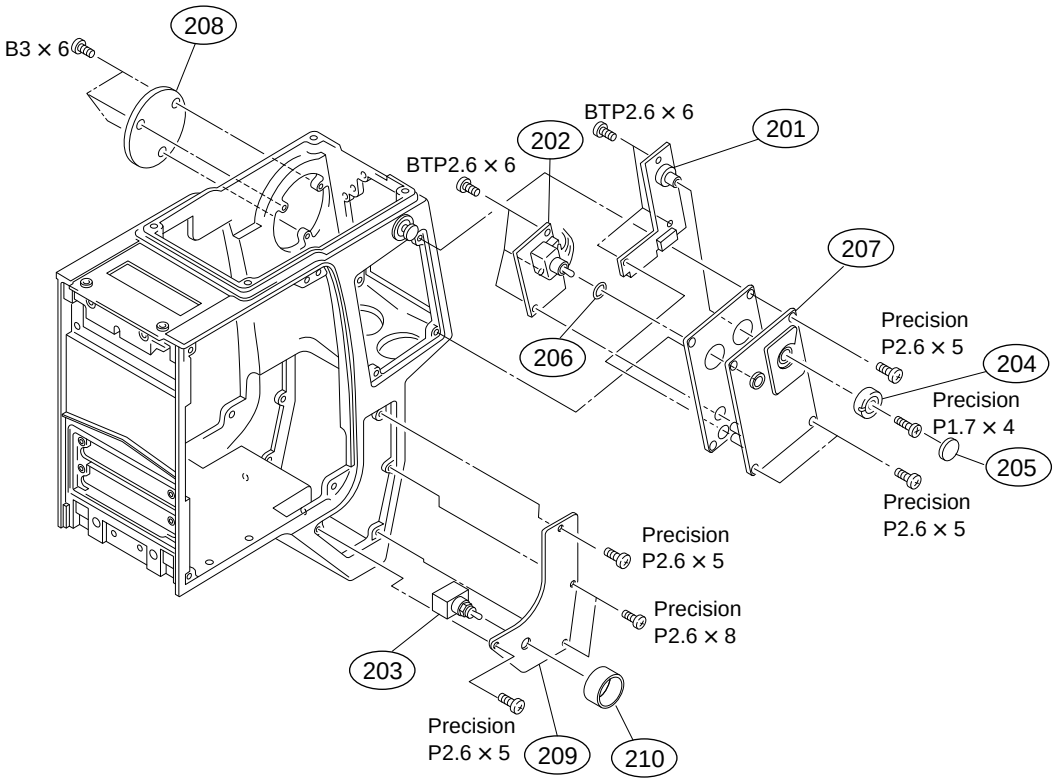


No.	Part No.	SP	Description
1	A-8316-404-A	o	MOUNTED CIRCUIT BOARD, DC-93
2	A-8316-405-A	o	MOUNTED CIRCUIT BOARD, DVP-12
3	A-8316-406-A	o	MOUNTED CIRCUIT BOARD, VSE-30
4	A-8316-411-A	o	MOUNTED CIRCUIT BOARD, CN-1523
5	A-8316-412-A	o	MOUNTED CIRCUIT BOARD, CN-1522
6	X-3678-482-1	o	PANEL ASSY, RIGHT
7	1-657-765-21	o	PRINTED CIRCUIT BOARD, LP-87
8	1-775-772-11	o	CABLE, FLEXIBLE FLAT (20 CORE)
9	1-775-773-11	o	CABLE, FLEXIBLE FLAT (20 CORE)
10	1-782-795-12	o	WIRE, FLAT TYPE (30 CORE)
11	1-782-795-22	o	WIRE, FLAT TYPE (30 CORE)
12	2-623-773-11	s	BOLT (M3X8), STAINLESS
13	3-165-162-01	s	SCREW (+P2.6X5) (TYPE1)
14	3-326-148-01	o	PACKING (A)
15	3-609-739-01	o	PANEL, VSE-30 PC BOARD
16	3-611-283-01	o	PANEL, DVP-12 PC BOARD
17	3-611-284-01	o	PANEL, DC-93 PC BOARD
18	3-611-285-01	o	RAIL, CA
19	3-611-587-01	o	LABEL, PC-BOARD (CA)
21	3-687-116-01	o	WASHER (4), STOPPER
22	3-692-113-03	o	WEDGE, HANGER
23	3-692-117-02	o	RAIL
24	3-692-169-13	o	PANEL, TOP
25	3-692-174-02	s	SCREW, FLOATING
26	3-692-181-01	o	COVER, TALLY
28	3-692-650-03	o	PLATE, LOCK
29	3-724-753-01	o	RING
30	3-729-061-01	s	SCREW (M2X4.5) (TYPE 1)

Left Panel Side

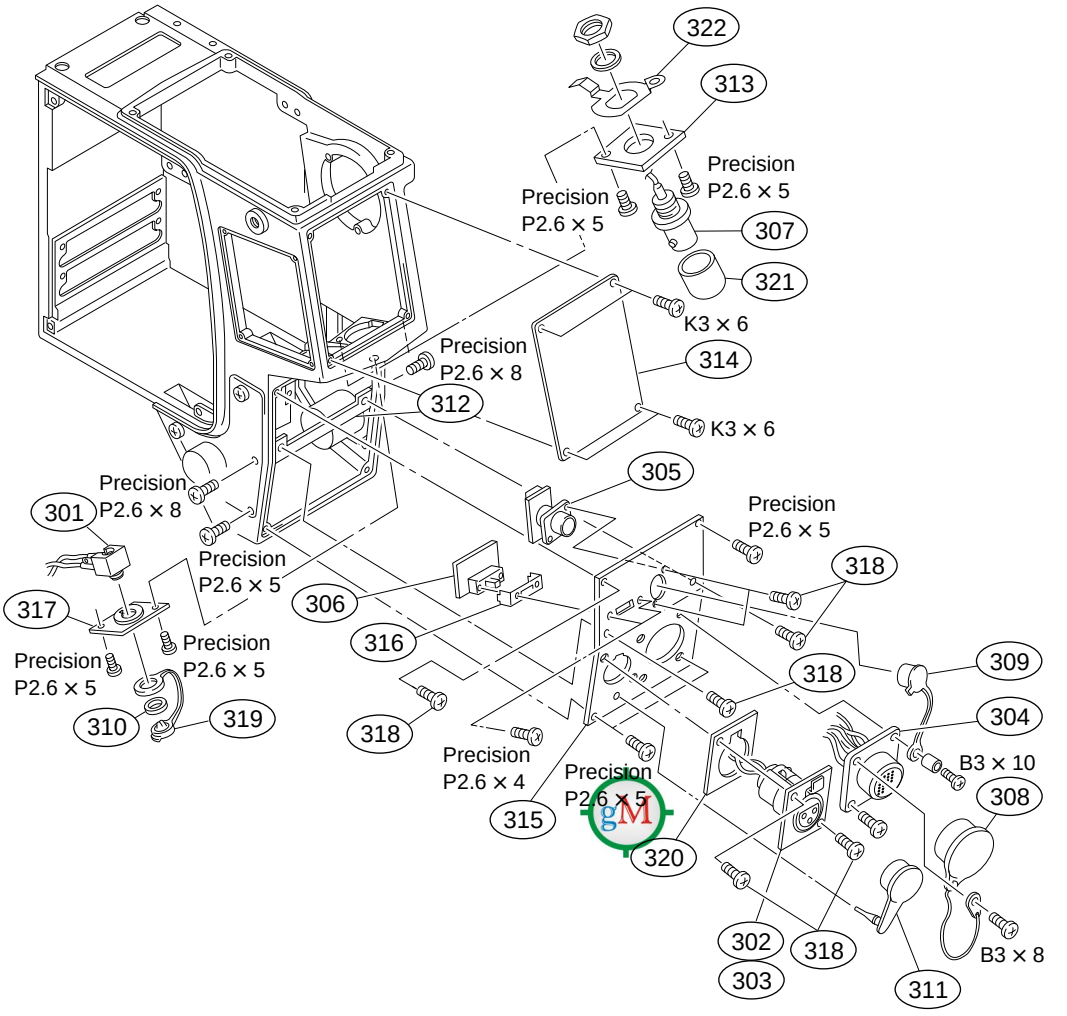


No.	Part No.	SP	Description
101	A-8316-410-A	o	MOUNTED CIRCUIT BOARD, MB-760
102	X-3678-483-1	o	PANEL ASSY, LEFT
103	1-561-781-91	s	CONNECTOR, BNC "GENLOCK IN" "MONITOR"
104	1-564-603-11	s	CONNECTOR (WITH DC SW) 4P MALE "DC IN"
105	1-565-072-11	s	CONNECTOR, 4P FEMALE "DC OUT"
106	3-187-015-01	o	CONNECTOR, COVER
107	3-609-741-01	o	PLATE, BNC
108	3-685-115-01	s	CAP (6P), DROP PROTECTION
109	3-687-116-01	o	WASHER (4), STOPPER
110	3-692-187-02	o	PLATE, PROTECTION
111	3-717-823-01	s	COVER, BNC



No.	Part No.	SP	Description
201	1-657-762-11	o	PRINTED CIRCUIT BOARD, SW-750
202	1-657-763-11	o	PRINTED CIRCUIT BOARD, SW-784
203	1-762-548-21	s	SWITCH, TOGGLE
204	3-171-996-03	s	KNOB (R), VR
205	3-178-098-11	s	SHEET (VR), INSULATING
206	3-312-823-00	s	PACKING, KNOB
207	3-609-740-01	o	PANEL, INCOM
208	3-609-742-01	o	PLATE, BLIND
209	3-611-286-01	o	PLATE, PS
210	3-692-177-02	o	COVER, SWITCH PS

Rear Panel Block



No.	Part No.	SP	Description
301	1-507-251-13	s	JACK "EARPHONE"
302	1-509-176-51	s	CONNECTOR, 3P MALE "MIC" (for J)
303	1-509-184-51	s	CONNECTOR, 3P FEMALE "MIC" (for SY)
304	1-562-244-00	o	CONNECTOR, 26P MALE "VTR"
305	1-657-764-21	o	PRINTED CIRCUIT BOARD, CN-1164
306	1-667-018-11	o	PRINTED CIRCUIT BOARD, SW-940
307	1-774-157-11	s	CONVERTER, COAXIAL CONNECTOR
308	3-612-791-02	s	CAP, CONNECTOR (CCZ)
309	3-186-499-01	o	CONNECTOR, CAP
310	3-437-229-01	s	INSULATOR (B), JACK
311	3-605-338-03	s	CAP, CONNECTOR
312	3-609-744-01	o	BRACKET, MIC
313	3-609-745-01	o	PLATE, BNC
314	3-609-747-01	o	PLATE CA
315	3-611-287-02	o	PLATE, MIC
316	3-611-288-01	o	BLACKET SW
317	3-692-180-12	o	PLATE EARPHONE
318	3-694-181-01	s	TYPE1, AROCK PRECISION +P2.6X5
319	3-849-405-00	s	COVER, EARPHONE JACK
320	3-612-421-01	o	SPACER (MIC)
321	3-717-823-01	s	COVER, BNC
322	3-612-419-01	o	PLATE, GROUND (BNC)

Part No.	SP	Description
7-621-770-87	s	SCREW +B 2.6X5
7-621-773-86	s	SCREW +B 2.6X4 (Silver)
7-623-507-01	s	LUG, 2.6
7-627-552-48	s	SCREW, PRECISION +P 1.7X4
7-627-553-67	s	SCREW, PRECISION +P 2X5
7-627-556-38	s	SCREW +P 2.6X4.0 (Black)
7-627-556-57	s	PRECISION SCREW +P 2.6X5 TYPE1 (Silver)
7-627-556-58	s	SCREW +P 2.6X5 (Black)
7-627-556-98	s	SCREW, PRECISION +P 2.6X8 TYPE1
7-682-247-09	s	SCREW +K 3X6
7-682-545-04	s	SCREW +B 3X4
7-682-547-09	s	SCREW +B 3X6
7-682-548-04	s	SCREW +B 3X8 (Silver)
7-682-548-09	s	SCREW +B 3X8 (Black)
7-682-549-09	s	SCREW +B 3X10 (Black)
7-682-563-09	s	SCREW +B 4X12
7-684-023-04	s	N 3, TYPE 2
7-685-533-19	s	SCREW +BTP 2.6X6 TYPE2 N-S
7-685-534-19	s	SCREW +BTP 2.6X8 TYPE2 N-S
7-682-559-09	s	SCREW +B 4X5

4-2. Electrical Parts List

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-------------
CN-1164 BOARD
-------------
 Ref. No.
 or Q'ty  Part No.    SP Description

 1pc      1-657-764-21 o PRINTED CIRCUIT BOARD, CN-1164

 CN601    1-764-093-21 o PIN, CONNECTOR (PC BOARD) 8P
 CN602    1-766-696-11 o CONNECTOR, 8P


-------------
CN-1522 BOARD
-------------
 Ref. No.
 or Q'ty  Part No.    SP Description

 1pc      A-8316-412-A o MOUNTED CIRCUIT BOARD, CN-1522

 CN2      1-764-099-11 s PIN, CONNECTOR (PC BOARD) 14P
 CN3      1-569-531-11 s HOUSING, 20P
 CN4      1-569-531-11 s HOUSING, 20P


-------------
CN-1523 BOARD
-------------
 Ref. No.
 or Q'ty  Part No.    SP Description

 1pc      A-8316-411-A o MOUNTED CIRCUIT BOARD, CN-1523

 CN2      1-569-532-11 s HOUSING, 30P
 CN3      1-569-532-11 s HOUSING, 30P
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DC-93 BOARD
-----------
 Ref. No.
 or Q'ty  Part No.    SP Description

 1pc      A-8316-404-A o MOUNTED CIRCUIT BOARD, DC-93
 6pcs     3-729-061-01 s SCREW (M2X4.5) (TYPE 1)
 1pc      3-611-284-01 o PANEL,DC-93 PC BOARD
 1pc      3-724-753-01 o RING

 C1       1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C2       1-135-091-00 s TANTALUM, CHIP 1uF 20% 16V
 C3       1-135-091-00 s TANTALUM, CHIP 1uF 20% 16V
 C4       1-115-185-11 s CERAMIC 0.033uF 10% 50V
 C5       1-115-185-11 s CERAMIC 0.033uF 10% 50V

 C6       1-163-131-00 s CERAMIC, CHIP 390PF 5% 50V
 C7       1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C8       1-104-760-11 s CERAMIC, CHIP 0.047uF 10% 50V
 C9       1-111-058-11 s CHIP, ELECT 150uF 20% 25V
 C10      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V

 C11      1-111-058-11 s CHIP, ELECT 150uF 20% 25V
 C12      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V
 C13      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V
 C14      1-127-516-11 s ALUMN SOLID 220uF 20% 10V
 C15      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V

 C16      1-115-732-11 s ELECT 330uF 20% 10V
 C17      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V
 C18      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V
 C19      1-115-732-11 s ELECT 330uF 20% 10V
 C20      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V

 C21      1-115-732-11 s ELECT 330uF 20% 10V
 C22      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V
 C23      1-127-515-11 s ELECT 47uF 20% 10V
 C24      1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C25      1-135-091-00 s TANTALUM, CHIP 1uF 20% 16V

 C26      1-135-091-00 s TANTALUM, CHIP 1uF 20% 16V
 C27      1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
 C28      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V
 C29      1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C30      1-115-708-11 s ELECT 470uF 20% 6.3V

 C31      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V
 C32      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V
 C33      1-127-564-11 s ELECT (SOLID) 150uF 20% 6.3
 C34      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V
 C35      1-127-564-11 s ELECT (SOLID) 150uF 20% 6.3

 C36      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V
 C37      1-127-515-11 s ELECT 47uF 20% 10V
 C38      1-126-397-11 s ELECT, CHIP 33uF 20% 25V
 C39      1-126-397-11 s ELECT, CHIP 33uF 20% 25V
 C40      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V

 C41      1-113-981-11 s TANTALUM,CHIP 22uF 20% 20V
 C42      1-113-981-11 s TANTALUM,CHIP 22uF 20% 20V
 C43      1-113-981-11 s TANTALUM,CHIP 22uF 20% 20V
 C44      1-113-981-11 s TANTALUM,CHIP 22uF 20% 20V
 C45      1-107-689-21 s TANTAL 1uF 20% 35V

 C46      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V
 C47      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V
 C48      1-126-397-11 s ELECT, CHIP 33uF 20% 25V
 C49      1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
 C50      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V

 C51      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V
 C52      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V
 C57      1-107-689-21 s TANTAL 1uF 20% 35V
 C58      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V
 C59      1-163-038-00 s CHIP, CERAMIC 0.1uF 25V
```

(DC-93 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
D1	8-719-066-68	s	DIODE DSM3MA1-T
D2	8-719-800-76	s	DIODE 1SS226
D3	8-719-987-86	s	DIODE SB01-15CP
D4	8-719-800-76	s	DIODE 1SS226
D5	8-719-054-44	s	DIODE U1FWJ44N(TE12R)
D6	8-719-800-76	s	DIODE 1SS226
D7	8-719-987-86	s	DIODE SB01-15CP
D8	8-719-404-35	s	DIODE MA141WK
D10	8-719-029-65	s	DIODE RD4.7UJN-T1
D11	8-719-404-35	s	DIODE MA141WK
D12	8-719-404-35	s	DIODE MA141WK
D13	8-719-404-35	s	DIODE MA141WK
D14	8-719-017-42	s	DIODE HSM88WA
FB1	1-239-899-21	s	FILTER, CHIP EMI
FB2	1-239-899-21	s	FILTER, CHIP EMI
FB3	1-239-899-21	s	FILTER, CHIP EMI
IC1	8-759-260-57	s	IC TL1451ACPW-E05
IC2	8-759-260-57	s	IC TL1451ACPW-E05
IC3	8-759-100-93	s	IC UPC393G2
IC4	8-759-092-81	s	IC SN75158PS
IC5	8-749-014-35	s	IC HCPL-0630-500
IC7	8-759-195-02	s	IC TC7S86F-TE85L
IC8	8-759-209-54	s	IC TC4S01F
IC9	8-759-195-02	s	IC TC7S86F-TE85L
IC10	8-759-195-02	s	IC TC7S86F-TE85L
IC11	8-759-100-93	s	IC UPC393G2
IC12	8-759-100-93	s	IC UPC393G2
L1	1-414-529-21	s	INDUCTOR CHIP 100UH
L2	1-414-529-21	s	INDUCTOR CHIP 100UH
L3	1-414-529-21	s	INDUCTOR CHIP 100UH
L4	1-414-529-21	s	INDUCTOR CHIP 100UH
L5	1-414-529-21	s	INDUCTOR CHIP 100UH
L6	1-414-529-21	s	INDUCTOR CHIP 100UH
L7	1-414-529-21	s	INDUCTOR CHIP 100UH
L8	1-414-529-21	s	INDUCTOR CHIP 100UH
Q1	8-729-140-37	s	TRANSISTOR 2SC3734-L-B24
Q2	8-729-042-90	s	TRANSISTOR UPA609T-E1
Q3	8-729-322-45	s	TRANSISTOR 2SJ182S
Q4	8-729-140-37	s	TRANSISTOR 2SC3734-L-B24
Q5	8-729-042-90	s	TRANSISTOR UPA609T-E1
Q6	8-729-322-45	s	TRANSISTOR 2SJ182S
Q7	8-729-140-37	s	TRANSISTOR 2SC3734-L-B24
Q8	8-729-042-90	s	TRANSISTOR UPA609T-E1
Q9	8-729-322-45	s	TRANSISTOR 2SJ182S
Q10	8-729-322-45	s	TRANSISTOR 2SJ182S
Q11	8-729-117-32	s	TRANSISTOR 2SC4177
Q13	8-729-140-37	s	TRANSISTOR 2SC3734-L-B24
Q14	8-729-140-37	s	TRANSISTOR 2SC3734-L-B24
Q15	8-729-140-37	s	TRANSISTOR 2SC3734-L-B24
Q16	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q17	8-729-140-37	s	TRANSISTOR 2SC3734-L-B24
R1	1-216-651-11	s	METAL, CHIP 1K 0.50% 1/10W
R2	1-216-049-91	s	METAL 1K 5% 1/10W
R3	1-216-049-91	s	METAL 1K 5% 1/10W
R4	1-216-651-11	s	METAL, CHIP 1K 0.50% 1/10W
R5	1-216-097-00	s	CHIP, METAL 100K 5% 1/10W

(DC-93 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R6	1-216-103-00	s	METAL, CHIP 180K 5% 1/10W
R7	1-216-660-11	s	METAL 2.4K 0.50% 1/10W
R8	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R9	1-216-025-11	s	CHIP, METAL 100 5% 1/10W
R10	1-216-083-00	s	METAL, CHIP 27K 5% 1/10W
R11	1-216-617-11	s	METAL, CHIP 39 0.50% 1/10W
R12	1-216-646-11	s	METAL, CHIP 620 0.5% 1/10W
R13	1-216-672-11	s	METAL, CHIP 7.5K 0.5% 1/10W
R14	1-216-660-11	s	METAL 2.4K 0.50% 1/10W
R15	1-216-677-11	s	METAL, CHIP 12K 0.50% 1/10W
R16	1-216-650-11	s	CHIP, METAL 910 0.50% 1/10W
R17	1-216-620-11	s	METAL, CHIP 51 0.5% 1/10W
R18	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R19	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R20	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R21	1-216-009-00	s	CHIP, METAL 22 5% 1/10W
R22	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R23	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R24	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R25	1-216-009-00	s	CHIP, METAL 22 5% 1/10W
R26	1-216-660-11	s	METAL 2.4K 0.50% 1/10W
R27	1-216-651-11	s	METAL, CHIP 1K 0.50% 1/10W
R28	1-216-651-11	s	METAL, CHIP 1K 0.50% 1/10W
R29	1-216-009-00	s	CHIP, METAL 22 5% 1/10W
R30	1-216-049-91	s	METAL 1K 5% 1/10W
R31	1-216-093-00	s	CHIP, METAL 68K 5% 1/10W
R32	1-216-101-00	s	CHIP, METAL 150K 5% 1/10W
R33	1-216-025-11	s	CHIP, METAL 100 5% 1/10W
R34	1-216-295-11	s	CHIP, CONDUCTOR 0
R35	1-216-097-00	s	CHIP, METAL 100K 5% 1/10W
R36	1-216-097-00	s	CHIP, METAL 100K 5% 1/10W
R37	1-216-097-00	s	CHIP, METAL 100K 5% 1/10W
R38	1-216-097-00	s	CHIP, METAL 100K 5% 1/10W
R39	1-216-667-11	s	METAL, CHIP 4.7K 0.50% 1/10W
R40	1-216-616-11	s	METAL, CHIP 36 0.50% 1/10W
R41	1-216-295-11	s	CHIP, CONDUCTOR 0
R42	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R43	1-216-061-00	s	METAL, CHIP 3.3K 5% 1/10W
R44	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R45	1-216-009-00	s	CHIP, METAL 22 5% 1/10W
R46	1-216-001-00	s	CHIP, METAL 10 5% 1/10W
R47	1-216-087-00	s	CHIP, METAL 39K 5% 1/10W
R48	1-216-095-00	s	CHIP, METAL 82K 5% 1/10W
R49	1-216-095-00	s	CHIP, METAL 82K 5% 1/10W
R50	1-216-298-00	s	CHIP, METAL 2.2 5% 1/10W
R51	1-216-075-00	s	CHIP, METAL 12K 5% 1/10W
R52	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R53	1-216-077-00	s	METAL, CHIP 15K 5% 1/10W
R54	1-216-043-91	s	METAL, CHIP 560 5% 1/10W
R55	1-216-065-00	s	METAL, CHIP 4.7K 5% 1/10W
R56	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R57	1-216-097-00	s	CHIP, METAL 100K 5% 1/10W
R58	1-216-097-00	s	CHIP, METAL 100K 5% 1/10W
R59	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R60	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R61	1-216-049-91	s	METAL 1K 5% 1/10W
R62	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R63	1-216-097-00	s	CHIP, METAL 100K 5% 1/10W
R64	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W

(DC-93 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R65	1-216-035-00	s	CHIP, METAL 270 5% 1/10W
R66	1-216-041-00	s	CHIP, METAL 470 5% 1/10W
R67	1-216-089-91	s	METAL 47K 5% 1/10W
R68	1-216-089-91	s	METAL 47K 5% 1/10W
R69	1-216-033-00	s	METAL, CHIP 220 5% 1/10W
R70	1-216-001-00	s	CHIP, METAL 10 5% 1/10W
R71	1-216-001-00	s	CHIP, METAL 10 5% 1/10W
R72	1-216-069-00	s	CHIP, METAL 6.8K 5% 1/10W
R73	1-216-069-00	s	CHIP, METAL 6.8K 5% 1/10W
R74	1-216-085-00	s	CHIP, METAL 33K 5% 1/10W
R75	1-216-065-00	s	CHIP, METAL 4.7K 5% 1/10W
R76	1-216-001-00	s	CHIP, METAL 10 5% 1/10W
R77	1-216-081-00	s	CHIP, METAL 22K 5% 1/10W
R79	1-216-075-00	s	CHIP, METAL 12K 5% 1/10W
R80	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W
R81	1-216-079-00	s	CHIP, METAL 18K 5% 1/10W
R82	1-216-089-91	s	METAL 47K 5% 1/10W
RV1	1-237-036-11	s	RES, ADJ METAL 10K

DVP-12 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8316-405-A	o	MOUNTED CIRCUIT BOARD, DVP-12
6pcs	3-729-061-01	s	SCREW (M2X4.5) (TYPE 1)
1pc	3-611-283-01	o	PANEL,DVP-12 PC BOARD
1pc	3-724-753-01	o	RING
C1	1-164-156-11	s	CERAMIC 0.1uF 25V
C2	1-164-156-11	s	CERAMIC 0.1uF 25V
C3	1-164-156-11	s	CERAMIC 0.1uF 25V
C4	1-164-156-11	s	CERAMIC 0.1uF 25V
C5	1-164-156-11	s	CERAMIC 0.1uF 25V
C6	1-104-914-11	s	TANTAL 22uF 20% 16V
C7	1-164-156-11	s	CERAMIC 0.1uF 25V
C8	1-164-156-11	s	CERAMIC 0.1uF 25V
C9	1-113-682-11	s	CHIP, TANTALUM 33uF 20% 10V
C10	1-104-914-11	s	TANTAL 22uF 20% 16V
C11	1-104-852-11	s	TANTALUM, CHIP 22uF 20% 10V
C12	1-164-222-11	s	CERAMIC CHIP 0.22uF 25V
C13	1-164-156-11	s	CERAMIC 0.1uF 25V
C14	1-115-156-11	s	CERAMIC 1uF 25V
C15	1-164-156-11	s	CERAMIC 0.1uF 25V
C16	1-164-156-11	s	CERAMIC 0.1uF 25V
C17	1-164-156-11	s	CERAMIC 0.1uF 25V
C18	1-164-156-11	s	CERAMIC 0.1uF 25V
C19	1-164-156-11	s	CERAMIC 0.1uF 25V
C20	1-164-156-11	s	CERAMIC 0.1uF 25V
C21	1-164-156-11	s	CERAMIC 0.1uF 25V
C22	1-164-156-11	s	CERAMIC 0.1uF 25V
C23	1-164-156-11	s	CERAMIC 0.1uF 25V
C24	1-164-156-11	s	CERAMIC 0.1uF 25V
C25	1-164-156-11	s	CERAMIC 0.1uF 25V
C26	1-164-156-11	s	CERAMIC 0.1uF 25V
C27	1-164-156-11	s	CERAMIC 0.1uF 25V
C28	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C29	1-164-156-11	s	CERAMIC 0.1uF 25V
C30	1-164-156-11	s	CERAMIC 0.1uF 25V
C31	1-164-156-11	s	CERAMIC 0.1uF 25V
C32	1-164-156-11	s	CERAMIC 0.1uF 25V
C33	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C34	1-164-156-11	s	CERAMIC 0.1uF 25V
C35	1-104-852-11	s	TANTALUM, CHIP 22uF 20% 10V
C36	1-164-227-11	s	CERAMIC 0.022uF 10% 25V
C37	1-164-156-11	s	CERAMIC 0.1uF 25V
C38	1-164-156-11	s	CERAMIC 0.1uF 25V
C39	1-164-156-11	s	CERAMIC 0.1uF 25V
C40	1-164-156-11	s	CERAMIC 0.1uF 25V
C41	1-164-156-11	s	CERAMIC 0.1uF 25V
C42	1-164-156-11	s	CERAMIC 0.1uF 25V
C43	1-164-156-11	s	CERAMIC 0.1uF 25V
C44	1-164-156-11	s	CERAMIC 0.1uF 25V
C45	1-164-156-11	s	CERAMIC 0.1uF 25V
C46	1-164-156-11	s	CERAMIC 0.1uF 25V
C47	1-164-156-11	s	CERAMIC 0.1uF 25V
C49	1-164-156-11	s	CERAMIC 0.1uF 25V
C50	1-164-156-11	s	CERAMIC 0.1uF 25V
C51	1-164-156-11	s	CERAMIC 0.1uF 25V
C55	1-164-156-11	s	CERAMIC 0.1uF 25V
C56	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C60	1-164-156-11	s	CERAMIC 0.1uF 25V
C61	1-164-156-11	s	CERAMIC 0.1uF 25V
C63	1-164-156-11	s	CERAMIC 0.1uF 25V

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(DVP-12 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C65	1-164-156-11	s	CERAMIC 0.1uF 25V
C66	1-115-156-11	s	CERAMIC 1uF 25V
C69	1-164-156-11	s	CERAMIC 0.1uF 25V
C70	1-164-156-11	s	CERAMIC 0.1uF 25V
C73	1-164-156-11	s	CERAMIC 0.1uF 25V
C75	1-164-156-11	s	CERAMIC 0.1uF 25V
C76	1-164-156-11	s	CERAMIC 0.1uF 25V
C80	1-164-156-11	s	CERAMIC 0.1uF 25V
C84	1-164-156-11	s	CERAMIC 0.1uF 25V
C87	1-164-156-11	s	CERAMIC 0.1uF 25V
C88	1-164-156-11	s	CERAMIC 0.1uF 25V
C89	1-164-156-11	s	CERAMIC 0.1uF 25V
C90	1-164-156-11	s	CERAMIC 0.1uF 25V
C92	1-164-156-11	s	CERAMIC 0.1uF 25V
C93	1-164-156-11	s	CERAMIC 0.1uF 25V
C94	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C95	1-115-156-11	s	CERAMIC 1uF 25V
C99	1-164-156-11	s	CERAMIC 0.1uF 25V
C100	1-164-156-11	s	CERAMIC 0.1uF 25V
C101	1-164-156-11	s	CERAMIC 0.1uF 25V
C103	1-104-914-11	s	TANTAL 22uF 20% 16V
C104	1-164-156-11	s	CERAMIC 0.1uF 25V
C107	1-164-156-11	s	CERAMIC 0.1uF 25V
C108	1-164-156-11	s	CERAMIC 0.1uF 25V
C109	1-164-156-11	s	CERAMIC 0.1uF 25V
C111	1-164-156-11	s	CERAMIC 0.1uF 25V
C112	1-164-156-11	s	CERAMIC 0.1uF 25V
C113	1-164-156-11	s	CERAMIC 0.1uF 25V
C114	1-162-915-11	s	CERAMIC, CHIP 10PF 5PF 50V
C116	1-164-156-11	s	CERAMIC 0.1uF 25V
C117	1-164-156-11	s	CERAMIC 0.1uF 25V
C119	1-164-156-11	s	CERAMIC 0.1uF 25V
C120	1-164-156-11	s	CERAMIC 0.1uF 25V
C121	1-164-156-11	s	CERAMIC 0.1uF 25V
C122	1-164-156-11	s	CERAMIC 0.1uF 25V
C125	1-164-156-11	s	CERAMIC 0.1uF 25V
C128	1-164-227-11	s	CERAMIC 0.022uF 10% 25V
C132	1-164-156-11	s	CERAMIC 0.1uF 25V
C133	1-164-227-11	s	CERAMIC 0.022uF 10% 25V
C135	1-164-156-11	s	CERAMIC 0.1uF 25V
C136	1-164-156-11	s	CERAMIC 0.1uF 25V
C137	1-164-156-11	s	CERAMIC 0.1uF 25V
C138	1-113-981-11	s	TANTALUM,CHIP 22uF 20% 20V
C139	1-113-981-11	s	TANTALUM,CHIP 22uF 20% 20V
C149	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C150	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C151	1-164-156-11	s	CERAMIC 0.1uF 25V
C152	1-164-156-11	s	CERAMIC 0.1uF 25V
C154	1-164-156-11	s	CERAMIC 0.1uF 25V
C155	1-164-156-11	s	CERAMIC 0.1uF 25V
C156	1-164-156-11	s	CERAMIC 0.1uF 25V
C157	1-164-156-11	s	CERAMIC 0.1uF 25V
C160	1-164-156-11	s	CERAMIC 0.1uF 25V
C161	1-164-156-11	s	CERAMIC 0.1uF 25V
C162	1-162-924-11	s	CERAMIC 56PF 5% 50V
CN2	1-750-880-11	s	RECEPTACLE, COAXIAL CONNECTOR
CN3	1-750-880-11	s	RECEPTACLE, COAXIAL CONNECTOR
D1	8-719-024-81	s	DIODE 1SS300-TE85L

(DVP-12 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
D3	8-719-159-85	s	DIODE RD2.0MB
D7	8-719-404-35	s	DIODE MA141WK
D9	8-719-159-85	s	DIODE RD2.0MB
D11	8-719-157-23	s	DIODE RD4.7M-B
D12	8-719-157-23	s	DIODE RD4.7M-B
D13	8-719-054-49	s	DIODE HSMP-3894#L31
D14	8-719-054-49	s	DIODE HSMP-3894#L31
D15	8-719-054-49	s	DIODE HSMP-3894#L31
D16	8-719-054-49	s	DIODE HSMP-3894#L31
IC1	8-759-175-04	s	IC PCF8574T-T
IC2	8-759-389-31	s	IC 74LCX125MTCX
IC3	8-759-173-16	s	IC TL062CPW
IC4	8-759-295-09	s	IC TLC2932IPW
IC5	8-759-426-18	s	IC MB88141PF-ER
IC6	8-759-389-48	s	IC 74LCX16374MTDX
IC7	8-759-471-91	s	IC 74VHC04MTCX
IC9	8-759-389-48	s	IC 74LCX16374MTDX
IC10	8-759-196-96	s	IC TC7SH08FU-TE85R
IC11	8-759-472-31	s	IC 74VHC163MTCX
IC12	8-759-466-56	s	IC 74LCX86MTCX
IC13	8-759-472-31	s	IC 74VHC163MTCX
IC15	8-759-447-77	s	IC TC7WH74FU(TE12R)
IC17	8-759-472-31	s	IC 74VHC163MTCX
IC18	8-759-295-09	s	IC TLC2932IPW
IC19	8-759-389-28	s	IC 74LCX14MTCX
IC20	8-759-918-65	s	IC TL7700CPS
IC22	8-759-472-70	s	IC 74VHC4040MX
IC25	8-759-524-21	s	IC TC74VHC174FT(EL)
IC26	8-759-471-98	s	IC 74VHCT08MTCX
IC28	8-759-100-93	s	IC UPC393G2
IC29	8-752-078-32	s	IC CXB1341R
IC38	8-759-076-06	s	IC TL064CPW
IC39	8-759-185-42	s	IC LM4040AIM3-2.5
IC40	8-759-471-69	s	IC AD8001AR-REEL
L1	1-412-030-11	s	INDUCTOR CHIP 22uH
L2	1-412-030-11	s	INDUCTOR CHIP 22uH
L3	1-412-030-11	s	INDUCTOR CHIP 22uH
L4	1-412-030-11	s	INDUCTOR CHIP 22uH
L5	1-412-030-11	s	INDUCTOR CHIP 22uH
L12	1-412-030-11	s	INDUCTOR CHIP 22uH
L13	1-412-030-11	s	INDUCTOR CHIP 22uH
L14	1-412-030-11	s	INDUCTOR CHIP 22uH
L15	1-412-030-11	s	INDUCTOR CHIP 22uH
Q1	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q2	8-729-117-32	s	TRANSISTOR 2SC4177
Q3	8-729-820-86	s	TRANSISTOR 2SB1121-ST
Q4	8-729-820-86	s	TRANSISTOR 2SB1121-ST
Q5	8-729-807-51	s	TRANSISTOR 2SD1623-S
Q6	8-729-101-07	s	TRANSISTOR 2SB798
Q7	8-729-143-46	s	TRANSISTOR 2SC3356-R24
Q8	8-729-105-68	s	TRANSISTOR 2SC3356-K
Q9	8-729-105-68	s	TRANSISTOR 2SC3356-K
Q10	8-729-143-46	s	TRANSISTOR 2SC3356-R24
Q11	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q12	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q13	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q14	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q17	8-729-029-14	s	TRANSISTOR DTC144EUA-T106

(DVP-12 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q18	8-729-927-68	s	TRANSISTOR UMW1
R1	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R2	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R3	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R4	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R5	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R6	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R7	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R8	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R9	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R10	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R11	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R12	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R13	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R14	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R16	1-218-714-11	s	METAL 8.2K 0.50% 1/16W
R17	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R18	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R19	1-216-834-11	s	METAL, CHIP 12K 5% 1/16W
R20	1-218-664-11	s	METAL 68 0.50% 1/16W
R21	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R22	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R23	1-218-707-11	s	CHIP, METAL 4.3K 0.50% 1/16W
R24	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R25	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R26	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R27	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R29	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R32	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R33	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R35	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R36	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R37	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R38	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R39	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R40	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R41	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R42	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R43	1-216-838-11	s	METAL, CHIP 27K 5% 1/16W
R55	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R56	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R57	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R58	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R59	1-216-832-11	s	METAL, CHIP 8.2K 5% 1/16W
R62	1-216-834-11	s	METAL, CHIP 12K 5% 1/16W
R64	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R67	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R68	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R69	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R70	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R71	1-216-835-11	s	METAL, CHIP 15K 5% 1/16W
R72	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R73	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R74	1-216-835-11	s	METAL, CHIP 15K 5% 1/16W
R89	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R90	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R91	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R92	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W

(DVP-12 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R95	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R96	1-218-681-11	s	CHIP, METAL 360 0.50% 1/16W
R101	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R106	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R107	1-218-698-11	s	METAL 1.8K 0.50% 1/16W
R108	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R109	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R110	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R111	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R112	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R116	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W
R117	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R120	1-216-807-11	s	METAL, CHIP 68 5% 1/16W
R121	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R122	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R123	1-218-680-11	s	METAL 330 0.50% 1/16W
R124	1-218-665-11	s	CHIP, METAL 75 0.50% 1/16W
R125	1-218-714-11	s	METAL 8.2K 0.50% 1/16W
R126	1-218-698-11	s	METAL 1.8K 0.50% 1/16W
R127	1-218-691-11	s	CHIP, METAL 910 0.50% 1/16W
R128	1-218-651-11	s	METAL 20 0.50% 1/16W
R129	1-218-665-11	s	CHIP, METAL 75 0.50% 1/16W
R130	1-218-677-11	s	CHIP, METAL 240 0.50% 1/16W
R131	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R132	1-218-670-11	s	METAL 120 0.50% 1/16W
R133	1-218-651-11	s	METAL 20 0.50% 1/16W
R134	1-218-665-11	s	CHIP, METAL 75 0.50% 1/16W
R135	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R136	1-218-644-11	s	METAL 10 0.50% 1/16W
R137	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W
R138	1-216-834-11	s	METAL, CHIP 12K 5% 1/16W
R139	1-218-680-11	s	METAL 330 0.50% 1/16W
R140	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W
R141	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R142	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R143	1-216-819-11	s	METAL, CHIP 680 5% 1/16W
R144	1-216-837-11	s	METAL, CHIP 22K 5% 1/16W
R145	1-216-837-11	s	METAL, CHIP 22K 5% 1/16W
R146	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R147	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R148	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R149	1-216-834-11	s	METAL, CHIP 12K 5% 1/16W
R150	1-218-682-11	s	METAL 390 0.50% 1/16W
R151	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R152	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R153	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R154	1-218-692-11	s	CHIP, METAL 1K 0.50% 1/16W
R156	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R165	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R169	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R172	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R173	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
RB1	1-239-308-11	s	RESISTOR BLOCK, CHIP 47KX8
RB2	1-239-308-11	s	RESISTOR BLOCK, CHIP 47KX8
RB3	1-239-308-11	s	RESISTOR BLOCK, CHIP 47KX8
RB4	1-239-308-11	s	RESISTOR BLOCK, CHIP 47KX8
RB5	1-239-308-11	s	RESISTOR BLOCK, CHIP 47KX8
RB6	1-239-389-11	s	RESISTOR BLOCK, CHIP 47KX4

(DVP-12 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RB7	1-239-308-11	s	RESISTOR BLOCK, CHIP 47KX8
RV1	1-237-033-11	s	RES, ADJ METAL 1K
X1	1-760-275-11	s	OSCILLATOR, CRYSTAL (VCO TYPE) 27.0

LP-87 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-695-215-11	o	CONTACT, FEMALE
1pc	1-764-192-11	o	HOUSING, 2P
1pc	1-657-765-21	o	PRINTED CIRCUIT BOARD, LP-87
D1	8-719-989-53	s	DIODE CL-200HR-C-TSL
D2	8-719-989-53	s	DIODE CL-200HR-C-TSL
S1	1-570-612-11	s	SWITCH, TOGGLE

MB-760 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8316-410-A	o	MOUNTED CIRCUIT BOARD, MB-760
9pcs	3-729-061-01	s	SCREW (M2X4.5) (TYPE 1)
C19	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
CN1	1-569-531-11	s	HOUSING, 20P
CN2	1-569-531-11	s	HOUSING, 20P
CN3	1-764-099-11	s	PIN, CONNECTOR (PC BOARD) 14P
CN4	1-569-532-11	s	HOUSING, 30P
CN5	1-569-532-11	s	HOUSING, 30P
CN7	1-695-890-21	o	PIN, CONNECTOR (PC BOARD) 12P
CN9	1-764-078-11	s	PIN, CONNECTOR (PC BOARD) 3P
CN10	1-764-079-21	s	PIN, CONNECTOR (PC BOARD) 4P
CN12	1-750-635-21	o	PIN, CONNECTOR (PC BOARD) 5P
CN14	1-764-080-21	s	PIN, CONNECTOR (PC BOARD) 8P
CN15	1-764-082-21	s	PIN, CONNECTOR (PC BOARD) 11P
CN16	1-764-087-21	s	PIN, CONNECTOR (PC BOARD) 14P
CN17	1-764-079-21	s	PIN, CONNECTOR (PC BOARD) 4P
CN18	1-695-209-21	s	PIN, CONNECTOR (PC BOARD) 15P
CN19	1-695-890-21	o	PIN, CONNECTOR (PC BOARD) 12P
CN20	1-695-480-21	o	PIN, CONNECTOR (PC BOARD) 2P
CN21	1-764-079-21	s	PIN, CONNECTOR (PC BOARD) 4P
FL8	1-234-011-21	s	FILTER, EMI
FL9	1-234-011-21	s	FILTER, EMI
FL11	1-234-011-21	s	FILTER, EMI
FL12	1-234-011-21	s	FILTER, EMI
FL14	1-234-011-21	s	FILTER, EMI
FL15	1-234-011-21	s	FILTER, EMI
FL16	1-234-011-21	s	FILTER, EMI
FL18	1-234-011-21	s	FILTER, EMI
FL19	1-234-011-21	s	FILTER, EMI
R9	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R10	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R11	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
SW1	⚠ 1-810-792-11	s	THERMISTOR, POSITIVE
SW2	⚠ 1-762-254-21	s	THERMISTOR, POSITIVE
SW3	⚠ 1-810-792-11	s	THERMISTOR, POSITIVE
SW4	⚠ 1-810-792-11	s	THERMISTOR, POSITIVE
SW5	⚠ 1-810-792-11	s	THERMISTOR, POSITIVE

SW-750 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-657-762-21	o	PRINTED CIRCUIT BOARD, SW-750
CN603	1-764-093-21	o	PIN, CONNECTOR (PC BOARD) 8P
RV1	1-223-958-11	s	RES, VAR, CARBON 10K (9 TYPE)

SW-784 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-657-763-21	o	PRINTED CIRCUIT BOARD, SW-784
CN604	1-568-814-11	o	HOUSING, CONNECTOR 8P
	1-566-987-11	o	CONTACT AWG#28-32
CN605	1-568-817-11	o	HOUSING, 12P
	1-566-987-11	o	CONTACT AWG#28-32
S1	1-570-984-11	s	SWITCH, TOGGLE

SW-940 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-667-018-12	o	PRINTED CIRCUIT BOARD, SW-940
1pc	3-611-288-01	o	BRACKET SW
CN1	1-566-990-11	o	HOUSING, 4P
	1-566-987-11	o	CONTACT AWG#28-32
SW1	1-571-908-11	s	SWITCH, SLIDE

VSE-30 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8316-406-A	o	MOUNTED CIRCUIT BOARD, VSE-30
6pcs	3-729-061-01	s	SCREW (M2X4.5) (TYPE 1)
1pc	3-609-739-01	o	PANEL,VSE-30 PC BOARD
1pc	3-724-753-01	o	RING
C1	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C2	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C3	1-162-915-11	s	CERAMIC, CHIP 10PF 5PF 50V
C4	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C5	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C7	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C8	1-111-253-11	s	TANTALUM 100uF 20% 6.3V
C9	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C10	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C11	1-164-156-11	s	CERAMIC 0.1uF 25V
C12	1-164-156-11	s	CERAMIC 0.1uF 25V
C13	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C14	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C15	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C16	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C17	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C18	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C19	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C20	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C21	1-164-156-11	s	CERAMIC 0.1uF 25V
C22	1-113-981-11	s	TANTALUM,CHIP 22uF 20% 20V
C23	1-164-156-11	s	CERAMIC 0.1uF 25V
C24	1-113-981-11	s	TANTALUM,CHIP 22uF 20% 20V
C25	1-162-905-11	s	CERAMIC 1PF 0.25PF 50V
C26	1-164-156-11	s	CERAMIC 0.1uF 25V
C27	1-164-156-11	s	CERAMIC 0.1uF 25V
C28	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C31	1-164-156-11	s	CERAMIC 0.1uF 25V
C32	1-164-156-11	s	CERAMIC 0.1uF 25V
C33	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C34	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C35	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C36	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C37	1-164-156-11	s	CERAMIC 0.1uF 25V
C38	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C39	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C40	1-126-391-11	s	ELECT 47uF 20% 6.3V
C43	1-126-391-11	s	ELECT 47uF 20% 6.3V
C45	1-113-981-11	s	TANTALUM,CHIP 22uF 20% 20V
C46	1-113-981-11	s	TANTALUM,CHIP 22uF 20% 20V
C47	1-113-981-11	s	TANTALUM,CHIP 22uF 20% 20V
C48	1-113-981-11	s	TANTALUM,CHIP 22uF 20% 20V
C49	1-164-156-11	s	CERAMIC 0.1uF 25V
C50	1-164-156-11	s	CERAMIC 0.1uF 25V
C51	1-164-156-11	s	CERAMIC 0.1uF 25V
C52	1-164-156-11	s	CERAMIC 0.1uF 25V
C53	1-126-391-11	s	ELECT 47uF 20% 6.3V
C54	1-126-391-11	s	ELECT 47uF 20% 6.3V
C55	1-164-156-11	s	CERAMIC 0.1uF 25V
C56	1-164-156-11	s	CERAMIC 0.1uF 25V
C57	1-126-391-11	s	ELECT 47uF 20% 6.3V
C59	1-126-391-11	s	ELECT 47uF 20% 6.3V
C60	1-126-391-11	s	ELECT 47uF 20% 6.3V

(VSE-30 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C61	1-126-391-11	s	ELECT 47uF 20% 6.3V
C201	1-162-964-11	s	CERAMIC 0.001uF 10% 50V
C202	1-162-964-11	s	CERAMIC 0.001uF 10% 50V
C203	1-162-964-11	s	CERAMIC 0.001uF 10% 50V
C204	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C205	1-117-145-11	s	ELECT 1uF 20% 50V
C206	1-117-145-11	s	ELECT 1uF 20% 50V
C207	1-128-405-11	s	ELECT 22uF 20% 50V
C208	1-162-963-11	s	CERAMIC, CHIP 680PF 10% 50V
C210	1-162-963-11	s	CERAMIC, CHIP 680PF 10% 50V
C211	1-162-964-11	s	CERAMIC 0.001uF 10% 50V
C213	1-164-156-11	s	CERAMIC 0.1uF 25V
C214	1-128-393-11	s	ELECT 100uF 20% 10V
C218	1-128-400-11	s	ELECT 47uF 20% 25V
C219	1-128-400-11	s	ELECT 47uF 20% 25V
C220	1-126-394-11	s	ELECT, CHIP 10uF 20% 16V
C221	1-117-145-11	s	ELECT 1uF 20% 50V
C222	1-128-405-11	s	ELECT 22uF 20% 50V
C223	1-164-156-11	s	CERAMIC 0.1uF 25V
C225	1-104-919-11	s	TANTALUM, CHIP 10uF 20% 25V
C226	1-117-145-11	s	ELECT 1uF 20% 50V
C227	1-126-391-11	s	ELECT 47uF 20% 6.3V
C230	1-117-145-11	s	ELECT 1uF 20% 50V
C231	1-117-145-11	s	ELECT 1uF 20% 50V
C232	1-117-145-11	s	ELECT 1uF 20% 50V
C233	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C234	1-164-156-11	s	CERAMIC 0.1uF 25V
C235	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C236	1-111-253-11	s	TANTALUM 100uF 20% 6.3V
C237	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C238	1-162-928-11	s	CERAMIC 120PF 5% 50V
C239	1-162-928-11	s	CERAMIC 120PF 5% 50V
C240	1-162-921-11	s	CERAMIC, CHIP 33PF 5% 50V
C241	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C242	1-128-393-11	s	ELECT 100uF 20% 10V
C243	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C244	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C245	1-164-156-11	s	CERAMIC 0.1uF 25V
C246	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C247	1-162-928-11	s	CERAMIC 120PF 5% 50V
C248	1-162-928-11	s	CERAMIC 120PF 5% 50V
C249	1-164-156-11	s	CERAMIC 0.1uF 25V
C250	1-115-154-11	s	ELECT 10uF 20% 16V
C251	1-126-391-11	s	ELECT 47uF 20% 6.3V
C252	1-126-391-11	s	ELECT 47uF 20% 6.3V
C253	1-115-154-11	s	ELECT 10uF 20% 16V
C254	1-126-391-11	s	ELECT 47uF 20% 6.3V
C255	1-126-391-11	s	ELECT 47uF 20% 6.3V
C256	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C257	1-128-405-11	s	ELECT 22uF 20% 50V
C258	1-126-391-11	s	ELECT 47uF 20% 6.3V
C259	1-126-391-11	s	ELECT 47uF 20% 6.3V
C260	1-164-156-11	s	CERAMIC 0.1uF 25V
C262	1-115-154-11	s	ELECT 10uF 20% 16V
C263	1-126-390-11	s	ELECT, CHIP 22uF 20% 6.3V
C264	1-115-154-11	s	ELECT 10uF 20% 16V
C265	1-164-156-11	s	CERAMIC 0.1uF 25V
C500	1-162-966-11	s	CERAMIC, CHIP 0.0022uF 10% 50V
C501	1-162-966-11	s	CERAMIC, CHIP 0.0022uF 10% 50V
C502	1-162-968-11	s	CERAMIC, CHIP 0.0047uF 10% 50V

(VSE-30 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C503	1-162-968-11	s	CERAMIC, CHIP 0.0047uF 10% 50V
C504	1-115-156-11	s	CERAMIC 1uF 25V
C505	1-115-156-11	s	CERAMIC 1uF 25V
C506	1-164-156-11	s	CERAMIC 0.1uF 25V
C507	1-164-156-11	s	CERAMIC 0.1uF 25V
C508	1-164-156-11	s	CERAMIC 0.1uF 25V
C509	1-164-156-11	s	CERAMIC 0.1uF 25V
C510	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C511	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C512	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C513	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C514	1-162-969-11	s	CERAMIC 0.0068uF 10% 25V
C515	1-162-969-11	s	CERAMIC 0.0068uF 10% 25V
C516	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C517	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C518	1-164-156-11	s	CERAMIC 0.1uF 25V
C519	1-113-981-11	s	TANTALUM,CHIP 22uF 20% 20V
C520	1-113-981-11	s	TANTALUM,CHIP 22uF 20% 20V
C521	1-164-156-11	s	CERAMIC 0.1uF 25V
C522	1-164-156-11	s	CERAMIC 0.1uF 25V
C523	1-113-981-11	s	TANTALUM,CHIP 22uF 20% 20V
C524	1-164-156-11	s	CERAMIC 0.1uF 25V
C525	1-164-156-11	s	CERAMIC 0.1uF 25V
C526	1-164-156-11	s	CERAMIC 0.1uF 25V
C527	1-164-156-11	s	CERAMIC 0.1uF 25V
C528	1-135-210-11	s	TANTALUM 4.7uF 10% 10V
C529	1-164-156-11	s	CERAMIC 0.1uF 25V
CP201	1-464-758-11	s	CONVERTER, DC-DC (CD-54)
D1	8-719-404-35	s	DIODE MA141WK
D2	8-719-157-23	s	DIODE RD4.7M-B
D3	8-719-157-23	s	DIODE RD4.7M-B
D4	8-719-157-23	s	DIODE RD4.7M-B
D5	8-719-157-23	s	DIODE RD4.7M-B
D201	8-719-024-81	s	DIODE 1SS300-TE85L
D202	8-719-106-52	s	DIODE RD10M-B1
D203	8-719-059-59	s	DIODE MA3J74200LSO
D204	8-719-059-59	s	DIODE MA3J74200LSO
D205	8-719-059-59	s	DIODE MA3J74200LSO
D206	8-719-059-59	s	DIODE MA3J74200LSO
D207	8-719-404-35	s	DIODE MA141WK
D208	8-719-024-81	s	DIODE 1SS300-TE85L
D209	8-719-029-77	s	DIODE RD15UJN-T1
D210	8-719-404-35	s	DIODE MA141WK
D211	8-719-029-77	s	DIODE RD15UJN-T1
D212	8-719-024-81	s	DIODE 1SS300-TE85L
D215	8-719-059-59	s	DIODE MA3J74200LSO
D216	8-719-059-59	s	DIODE MA3J74200LSO
D217	8-719-404-35	s	DIODE MA141WK
D218	8-719-024-81	s	DIODE 1SS300-TE85L
D219	8-719-024-81	s	DIODE 1SS300-TE85L
D220	8-719-024-81	s	DIODE 1SS300-TE85L
IC1	8-759-009-07	s	IC MC14053BF
IC2	8-759-185-42	s	IC LM4040AIM3-2.5
IC3	8-759-100-93	s	IC UPC393G2
IC4	8-759-173-16	s	IC TL062CPW
IC5	8-759-173-16	s	IC TL062CPW
IC201	8-759-356-17	s	IC NJM4556AM-A-TE2

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Ref. No. or Q'ty	Part No.	SP	Description
IC202	8-759-009-07	s	IC MC14053BF
IC203	8-759-082-61	s	IC TC4W53FU
IC204	8-759-278-58	s	IC NJM4558V-TE2
IC205	8-759-278-58	s	IC NJM4558V-TE2
IC206	8-759-085-04	s	IC M51132FP
IC207	8-759-209-69	s	IC TC4S11F
IC208	8-759-082-61	s	IC TC4W53FU
IC501	8-759-278-58	s	IC NJM4558V-TE2
IC502	8-759-278-58	s	IC NJM4558V-TE2
IC503	8-759-278-58	s	IC NJM4558V-TE2
IC504	8-759-336-17	s	IC AK5390-VS
IC505	8-759-472-02	s	IC 74VHC32MTCX
IC506	8-759-472-12	s	IC 74VHC123AMTCX
IC507	8-759-989-91	s	IC TL7705ACPS
L1	1-412-030-11	s	INDUCTOR CHIP 22uH
L2	1-412-030-11	s	INDUCTOR CHIP 22uH
L3	1-412-030-11	s	INDUCTOR CHIP 22uH
L4	1-412-030-11	s	INDUCTOR CHIP 22uH
L5	1-412-030-11	s	INDUCTOR CHIP 22uH
L6	1-412-030-11	s	INDUCTOR CHIP 22uH
L7	1-412-030-11	s	INDUCTOR CHIP 22uH
L8	1-412-030-11	s	INDUCTOR CHIP 22uH
L9	1-412-030-11	s	INDUCTOR CHIP 22uH
L10	1-412-030-11	s	INDUCTOR CHIP 22uH
L11	1-412-030-11	s	INDUCTOR CHIP 22uH
L12	1-412-030-11	s	INDUCTOR CHIP 22uH
L13	1-412-030-11	s	INDUCTOR CHIP 22uH
L14	1-412-030-11	s	INDUCTOR CHIP 22uH
L15	1-412-030-11	s	INDUCTOR CHIP 22uH
L16	1-412-030-11	s	INDUCTOR CHIP 22uH
L17	1-412-030-11	s	INDUCTOR CHIP 22uH
L18	1-412-030-11	s	INDUCTOR CHIP 22uH
L19	1-412-030-11	s	INDUCTOR CHIP 22uH
L20	1-412-030-11	s	INDUCTOR CHIP 22uH
L21	1-412-030-11	s	INDUCTOR CHIP 22uH
L201	1-412-030-11	s	INDUCTOR CHIP 22uH
L202	1-412-031-11	s	INDUCTOR CHIP 47uH
Q1	8-729-026-31	s	TRANSISTOR XP6435
Q2	8-729-144-07	s	TRANSISTOR 2SC4184-T43
Q3	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q4	8-729-024-56	s	TRANSISTOR 2SA1808
Q5	8-729-144-07	s	TRANSISTOR 2SC4184-T43
Q6	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q7	8-729-144-07	s	TRANSISTOR 2SC4184-T43
Q8	8-729-024-56	s	TRANSISTOR 2SA1808
Q9	8-729-117-32	s	TRANSISTOR 2SC4177
Q10	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q11	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q12	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q13	8-729-026-31	s	TRANSISTOR XP6435
Q14	8-729-026-31	s	TRANSISTOR XP6435
Q15	8-729-117-32	s	TRANSISTOR 2SC4177
Q16	8-729-144-07	s	TRANSISTOR 2SC4184-T43
Q17	8-729-144-07	s	TRANSISTOR 2SC4184-T43
Q18	8-729-024-56	s	TRANSISTOR 2SA1808
Q19	8-729-144-07	s	TRANSISTOR 2SC4184-T43
Q20	8-729-024-56	s	TRANSISTOR 2SA1808
Q21	8-729-144-07	s	TRANSISTOR 2SC4184-T43

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Ref. No. or Q'ty	Part No.	SP	Description
Q22	8-729-144-07	s	TRANSISTOR 2SC4184-T43
Q23	8-729-024-56	s	TRANSISTOR 2SA1808
Q24	8-729-026-31	s	TRANSISTOR XP6435
Q25	8-729-144-07	s	TRANSISTOR 2SC4184-T43
Q26	8-729-024-56	s	TRANSISTOR 2SA1808
Q27	8-729-117-32	s	TRANSISTOR 2SC4177
Q28	8-729-144-07	s	TRANSISTOR 2SC4184-T43
Q29	8-729-024-56	s	TRANSISTOR 2SA1808
Q30	8-729-144-07	s	TRANSISTOR 2SC4184-T43
Q31	8-729-144-07	s	TRANSISTOR 2SC4184-T43
Q32	8-729-024-56	s	TRANSISTOR 2SA1808
Q33	8-729-117-32	s	TRANSISTOR 2SC4177
Q34	8-729-101-07	s	TRANSISTOR 2SB798
Q35	8-729-807-51	s	TRANSISTOR 2SD1623-S
Q36	8-729-101-07	s	TRANSISTOR 2SB798
Q37	8-729-807-51	s	TRANSISTOR 2SD1623-S
Q201	8-729-141-48	s	TRANSISTOR 2SB624-BV345
Q202	8-729-021-63	s	TRANSISTOR 2SA1766-TD
Q203	8-729-141-75	s	TRANSISTOR 2SD596DV345
Q204	8-729-141-75	s	TRANSISTOR 2SD596DV345
Q205	8-729-117-32	s	TRANSISTOR 2SC4177
Q208	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q209	8-729-117-32	s	TRANSISTOR 2SC4177
Q210	8-729-119-04	s	TRANSISTOR 2SC3115
Q211	8-729-119-04	s	TRANSISTOR 2SC3115
Q212	8-729-119-04	s	TRANSISTOR 2SC3115
Q213	8-729-119-04	s	TRANSISTOR 2SC3115
Q214	8-729-026-32	s	TRANSISTOR XP6534
Q215	8-729-026-32	s	TRANSISTOR XP6534
Q216	8-729-119-04	s	TRANSISTOR 2SC3115
Q217	8-729-119-04	s	TRANSISTOR 2SC3115
Q218	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
R1	1-218-685-11	s	METAL 510 0.50% 1/16W
R2	1-218-685-11	s	METAL 510 0.50% 1/16W
R3	1-218-703-11	s	CHIP, METAL 3K 0.50% 1/16W
R4	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R5	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R6	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R7	1-218-703-11	s	CHIP, METAL 3K 0.50% 1/16W
R8	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R9	1-216-823-11	s	METAL, CHIP 1.5K 5% 1/16W
R10	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R11	1-216-828-11	s	METAL, CHIP 3.9K 5% 1/16W
R12	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W
R13	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R14	1-218-713-11	s	CHIP, METAL 7.5K 0.50% 1/16W
R15	1-216-837-11	s	METAL, CHIP 22K 5% 1/16W
R16	1-216-837-11	s	METAL, CHIP 22K 5% 1/16W
R17	1-216-789-11	s	METAL, CHIP 2.2 5% 1/16W
R18	1-216-789-11	s	METAL, CHIP 2.2 5% 1/16W
R19	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R20	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R21	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R22	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R23	1-218-691-11	s	CHIP, METAL 910 0.50% 1/16W
R24	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R25	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R26	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R27	1-218-685-11	s	METAL 510 0.50% 1/16W
R28	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R29	1-218-685-11	s	METAL 510 0.50% 1/16W
R30	1-218-685-11	s	METAL 510 0.50% 1/16W
R31	1-218-703-11	s	CHIP, METAL 3K 0.50% 1/16W
R32	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R33	1-218-685-11	s	METAL 510 0.50% 1/16W
R34	1-218-703-11	s	CHIP, METAL 3K 0.50% 1/16W
R35	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R36	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R37	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R38	1-216-823-11	s	METAL, CHIP 1.5K 5% 1/16W
R39	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R40	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R41	1-216-823-11	s	METAL, CHIP 1.5K 5% 1/16W
R42	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R43	1-216-823-11	s	METAL, CHIP 1.5K 5% 1/16W
R44	1-216-828-11	s	METAL, CHIP 3.9K 5% 1/16W
R45	1-218-695-11	s	METAL 1.3K 0.50% 1/16W
R46	1-216-828-11	s	METAL, CHIP 3.9K 5% 1/16W
R47	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R48	1-216-789-11	s	METAL, CHIP 2.2 5% 1/16W
R49	1-216-789-11	s	METAL, CHIP 2.2 5% 1/16W
R50	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R51	1-216-789-11	s	METAL, CHIP 2.2 5% 1/16W
R52	1-216-789-11	s	METAL, CHIP 2.2 5% 1/16W
R53	1-216-823-11	s	METAL, CHIP 1.5K 5% 1/16W
R54	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R55	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R56	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R57	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R58	1-216-828-11	s	METAL, CHIP 3.9K 5% 1/16W
R59	1-216-789-11	s	METAL, CHIP 2.2 5% 1/16W
R60	1-216-789-11	s	METAL, CHIP 2.2 5% 1/16W
R61	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R62	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R63	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R64	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R65	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R66	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R67	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R68	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R69	1-216-835-11	s	METAL, CHIP 15K 5% 1/16W
R70	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R71	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R72	1-216-835-11	s	METAL, CHIP 15K 5% 1/16W
R73	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R74	1-216-837-11	s	METAL, CHIP 22K 5% 1/16W
R75	1-216-837-11	s	METAL, CHIP 22K 5% 1/16W
R76	1-216-837-11	s	METAL, CHIP 22K 5% 1/16W
R77	1-216-837-11	s	METAL, CHIP 22K 5% 1/16W
R78	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R79	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R80	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R81	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R82	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R83	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R84	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R85	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R87	1-218-285-11	s	METAL, CHIP 75 5% 1/16W
R201	1-216-851-11	s	METAL, CHIP 330K 5% 1/16W
R202	1-216-822-11	s	METAL, CHIP 1.2K 5% 1/16W
R203	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R204	1-216-851-11	s	METAL, CHIP 330K 5% 1/16W
R207	1-216-834-11	s	METAL, CHIP 12K 5% 1/16W
R208	1-216-830-11	s	METAL, CHIP 5.6K 5% 1/16W
R209	1-216-851-11	s	METAL, CHIP 330K 5% 1/16W
R211	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R212	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R213	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R214	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R215	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R216	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R217	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R218	1-216-839-11	s	METAL, CHIP 33K 5% 1/16W
R219	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R221	1-216-839-11	s	METAL, CHIP 33K 5% 1/16W
R222	1-216-851-11	s	METAL, CHIP 330K 5% 1/16W
R223	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R228	1-216-837-11	s	METAL, CHIP 22K 5% 1/16W
R229	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R230	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R232	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R233	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R235	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R236	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R237	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R241	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R243	1-216-801-11	s	METAL, CHIP 22 5% 1/16W
R244	1-216-801-11	s	METAL, CHIP 22 5% 1/16W
R245	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R246	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R247	1-216-828-11	s	METAL, CHIP 3.9K 5% 1/16W
R249	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R250	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R251	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R252	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R253	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R255	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R256	1-216-839-11	s	METAL, CHIP 33K 5% 1/16W
R258	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R261	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R266	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R268	1-216-825-11	s	METAL, CHIP 2.2K 5% 1/16W
R269	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R270	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R271	1-216-840-11	s	METAL, CHIP 39K 5% 1/16W
R272	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R273	1-216-815-11	s	METAL, CHIP 330 5% 1/16W
R274	1-216-815-11	s	METAL, CHIP 330 5% 1/16W
R275	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R276	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R277	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R278	1-218-881-11	s	CHIP, METAL 27K 0.50% 1/16W
R279	1-218-881-11	s	CHIP, METAL 27K 0.50% 1/16W
R280	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R281	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W
R282	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R283	1-216-818-11	s	METAL, CHIP 560 5% 1/16W
R284	1-216-818-11	s	METAL, CHIP 560 5% 1/16W
R285	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R286	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R287	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R288	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R289	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R290	1-218-723-11	s	METAL 20K 0.50% 1/16W
R291	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W
R292	1-218-723-11	s	METAL 20K 0.50% 1/16W
R293	1-218-881-11	s	CHIP, METAL 27K 0.50% 1/16W
R294	1-218-881-11	s	CHIP, METAL 27K 0.50% 1/16W
R295	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W
R296	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
R297	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
R299	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R302	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R305	1-216-837-11	s	METAL, CHIP 22K 5% 1/16W
R307	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R308	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R309	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R310	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R311	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R312	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R313	1-218-713-11	s	CHIP, METAL 7.5K 0.50% 1/16W
R314	1-218-713-11	s	CHIP, METAL 7.5K 0.50% 1/16W
R315	1-216-831-11	s	METAL, CHIP 6.8K 5% 1/16W
R316	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R317	1-216-797-11	s	METAL, CHIP 10 5% 1/16W
R318	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R500	1-218-846-11	s	CHIP, METAL 910 0.50% 1/16W
R501	1-218-846-11	s	CHIP, METAL 910 0.50% 1/16W
R502	1-218-846-11	s	CHIP, METAL 910 0.50% 1/16W
R503	1-218-846-11	s	CHIP, METAL 910 0.50% 1/16W
R504	1-216-851-11	s	METAL, CHIP 330K 5% 1/16W
R505	1-216-851-11	s	METAL, CHIP 330K 5% 1/16W
R506	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R507	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R508	1-216-813-11	s	METAL, CHIP 220 5% 1/16W
R509	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R510	1-216-813-11	s	METAL, CHIP 220 5% 1/16W
R511	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R512	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R513	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R515	1-218-707-11	s	CHIP, METAL 4.3K 0.50% 1/16W
R518	1-218-707-11	s	CHIP, METAL 4.3K 0.50% 1/16W
R520	1-218-714-11	s	METAL 8.2K 0.50% 1/16W
R521	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R522	1-218-714-11	s	METAL 8.2K 0.50% 1/16W
R523	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R524	1-216-808-11	s	METAL, CHIP 82 5% 1/16W
R525	1-216-808-11	s	METAL, CHIP 82 5% 1/16W
R526	1-216-808-11	s	METAL, CHIP 82 5% 1/16W
R527	1-216-808-11	s	METAL, CHIP 82 5% 1/16W
R531	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R532	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R533	1-216-821-11	s	METAL, CHIP 1K 5% 1/16W
R534	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W

(VSE-30 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RV1	1-237-033-11	s	RES, ADJ METAL 1K
RV2	1-237-033-11	s	RES, ADJ METAL 1K
RV3	1-237-033-11	s	RES, ADJ METAL 1K
RV4	1-237-033-11	s	RES, ADJ METAL 1K
RV201	1-237-036-11	s	RES, ADJ METAL 10K
RV202	1-237-034-11	s	RES, ADJ METAL 2K
RV203	1-237-034-11	s	RES, ADJ METAL 2K
RV500	1-237-039-11	s	RES, ADJ METAL 100K
RV501	1-237-039-11	s	RES, ADJ METAL 100K
RV502	1-237-034-11	s	RES, ADJ METAL 2K
RV503	1-237-034-11	s	RES, ADJ METAL 2K
S1	1-692-881-41	s	SWITCH, SLIDE
T201	1-426-994-21	s	TRANSFORMER, DC-DC CONVERTER

4-3. Frame List

Connector

Ref No.	P/N	SP	Description	Name	Remarks
CN101	1-561-781-91	s	CONNECTOR, BNC	GENLOCK IN	
CN102	1-561-781-91	s	CONNECTOR, BNC	MONITOR	
CN103	1-564-603-11	s	CONNECTOR (WITH DC SW) 4P, MALE	DC IN	
CN104	1-565-072-11	s	CONNECTOR, 4P, FEMALE	DC OUT	
CN105	1-774-157-11	s	CONVERTER, COAXIAL CONNECTOR	SERIAL OUT	
CN106	1-509-176-51	s	CONNECTOR, 3P, FEMALE	MIC	for J
	1-509-184-51	s	CONNECTOR, 3P, MALE	MIC	for SY
CN107	1-562-244-00	o	CONNECTOR, 26P, MALE	VTR	

Flexible Card Wire/Cable

To be connected	P/N	SP	Description
between CN3/DVP-12 and CN105/SERIAL OUT	1-783-482-11	o	CABLE ASSEMBLY, COAXIAL
between CN2/DVP-12 and CN107/VTR	1-782-659-12	o	CABLE ASSEMBLY, COAXIAL
between CN4/CN-1522 and CN1/MB-760	1-775-772-11	o	WIRE, FLEXIBLE CARD (20 CORE)
between CN3/CN-1522 and CN3/MB-760	1-775-773-11	o	WIRE, FLEXIBLE CARD (20 CORE)
between CN2/CN-1523 and CN5/MB-760	1-782-795-12	o	WIRE, FLEXIBLE CARD (30 CORE)
between CN3/CN-1523 and CN4/MB-760	1-782-795-22	o	WIRE, FLEXIBLE CARD (30 CORE)

Housing/Contact

Destinations		Mated housing & contact			
Board	**Ref No.**	**P/N**	**SP**	**Description**	**Q'ty**
CN-1164	CN601	1-764-196-11	o	HOUSING,8P	1
		1-695-215-11	o	CONTACT,AWG#26-30	8
CN-1522	CN2	1-764-200-11	o	HOUSING,14P	1
		1-695-215-11	o	CONTACT,AWG#26-30	14
LP-87	CN606	1-764-192-11	o	HOUSING,2P	1
		1-695-215-11	o	CONTACT,AWG#26-30	2
MB-760	CN3	1-764-200-11	o	HOUSING,14P	1
		1-695-215-11	o	CONTACT,AWG#26-30	14
	CN7	1-695-892-11	o	HOUSING,12P	1
		1-695-215-11	o	CONTACT,AWG#26-30	12
	CN9	1-764-193-11	o	HOUSING,3P	1
		1-695-215-11	o	CONTACT,AWG#26-30	2
	CN10	1-764-194-11	o	HOUSING,4P	1
		1-695-215-11	o	CONTACT,AWG#26-30	3
	CN12	1-764-195-11	o	HOUSING,5P	1
		1-695-215-11	o	CONTACT,AWG#26-30	4
	CN14	1-764-196-11	o	HOUSING,8P	1
		1-695-215-11	o	CONTACT,AWG#26-30	8
	CN15	1-764-198-11	o	HOUSING,11P	1
		1-695-215-11	o	CONTACT,AWG#26-30	8
	CN16	1-764-200-11	o	HOUSING,14P	1
		1-695-215-11	o	CONTACT,AWG#26-30	13
	CN17	1-764-194-11	o	HOUSING,4P	1
		1-695-215-11	o	CONTACT,AWG#26-30	4
	CN18	1-695-214-11	o	HOUSING,15P	1
		1-695-215-11	o	CONTACT,AWG#26-30	15
	CN19	1-695-892-11	o	HOUSING,12P	1
		1-695-215-11	o	CONTACT,AWG#26-30	12
	CN20	1-764-192-11	o	HOUSING,2P	1
		1-695-215-11	o	CONTACT,AWG#26-30	2
	CN21	1-764-194-11	o	HOUSING,4P	1
		1-695-215-11	o	CONTACT,AWG#26-30	4
SW-750	CN603	1-764-196-11	o	HOUSING,8P	1
		1-695-215-11	o	CONTACT,AWG#26-30	8

Others

Ref No.	P/N	SP	Description	Name
C101	1-130-499-00	s	MYLAR 0.22uF 5% 50V	–
C102	1-162-722-11	s	CAP,CERAMIC 330PF	–
J101	1-507-251-13	s	JACK	EARPHONE
S101	1-762-548-11	s	SWITCH, TOGGLE	SDI ON/OFF/SDI OFF

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4-4. Supplied Accessories

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-6772-374-A	s	BELT ASSY, SHOULDER
2pcs	3-692-186-01	s	HOLDER,CABLE
1pc	3-694-183-01	s	SPACER, BATTERY
4pcs	7-682-547-09	s	SCREW +B 3X6

4-5. Optional Fixture

Part No.	SP	Description
J-6395-040-A	o	EXTENSION BOARD EX-464

4-6. Changed Parts

NOTE: The numbers identified by marking with) are matching with each serial numbers.
See the table matched with each serial numbers.

709) Serial No. 15001 and higher (SY)
Serial No. 35001 and higher (J)
711) Serial No. 15001 and higher (SY)
Serial No. 35026 and higher (J)
801) Serial No. 15001 and higher (SY)
Serial No. 35036 and higher (J)

DC-93 BOARD
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709)	C30	NOT IN USE.	---> 1-115-708-11 s ELECT 470uF 20% 6.3V
709)	C37	NOT IN USE.	---> 1-127-515-11 s ELECT 47uF 20% 10V
709)	C9	1-111-059-11 s ELECT 220MF 20% 25V	---> 1-111-058-11 s CHIP, ELECT 150uF 20% 25V
709)	IC12	NOT IN USE.	---> 8-759-100-93 s IC UPC393G2
709)	IC5	8-749-013-27 s PHOTO COUPLER HCPL-M600-500	---> 8-749-014-35 s IC HCPL-0630-500
709)	IC6	8-749-013-27 s PHOTO COUPLER HCPL-M600-500	---> DELETED.
801)	R1	1-216-049-91 s METAL 1K 5% 1/10W	---> 1-216-651-11 s METAL, CHIP 1K 0.50% 1/10W
801)	R11	1-216-015-00 s METAL, CHIP 39 5% 1/10W	---> 1-216-617-11 s METAL, CHIP 39 0.50% 1/10W
801)	R15	1-216-075-00 s CHIP, METAL 12K 5% 1/10W	---> 1-216-677-11 s METAL, CHIP 12K 0.50% 1/10W
801)	R27	1-216-049-91 s METAL 1K 5% 1/10W	---> 1-216-651-11 s METAL, CHIP 1K 0.50% 1/10W
801)	R28	1-216-049-91 s METAL 1K 5% 1/10W	---> 1-216-651-11 s METAL, CHIP 1K 0.50% 1/10W
709)	R35	1-216-067-00 s CHIP, METAL 5.6k 5% 1/10W	---> 1-216-097-00 s CHIP, METAL 100K 5% 1/10W
709)	R39	1-216-063-00 s CHIP, METAL 3.9K 5% 1/10W	---> 1-216-667-11 s METAL, CHIP 4.7K 0.50% 1/10W
801)	R4	1-216-049-91 s METAL 1K 5% 1/10W	---> 1-216-651-11 s METAL, CHIP 1K 0.50% 1/10W
709)	R74	1-218-675-11 s CHIP, METAL 10k 5% 1/10W	---> 1-216-085-00 s CHIP, METAL 33K 5% 1/10W
709)	R76	NOT IN USE.	---> 1-216-001-00 s CHIP, METAL 10 5% 1/10W
709)	R80	NOT IN USE.	---> 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
709)	R81	NOT IN USE.	---> 1-216-079-00 s CHIP, METAL 18K 5% 1/10W
709)	R82	NOT IN USE.	---> 1-216-089-91 s METAL 47K 5% 1/10W

DVP-12 BOARD
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709)	C10	1-164-156-11 s CERAMIC 0.1uF 25V	---> 1-104-914-11 s TANTAL 22uF 20% 16V
709)	C103	1-131-379-00 s TANTALUM 22uF 10% 6.3V	---> 1-104-914-11 s TANTAL 22uF 20% 16V
709)	C11	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V	---> 1-104-852-11 s TANTALUM, CHIP 22uF 20% 10V
709)	C12	1-164-492-11 s CERAMIC CHIP 0.15uF 10% 16V	---> 1-164-222-11 s CERAMIC CHIP 0.22uF 25V
709)	C125	1-115-156-11 s CAP, CERAMIC 1uF 10V	---> 1-164-156-11 s CERAMIC 0.1uF 25V
709)	C138	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V	---> 1-113-981-11 s TANTALUM,CHIP 22uF 20% 20V
709)	C139	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V	---> 1-113-981-11 s TANTALUM,CHIP 22uF 20% 20V
709)	C153	1-162-924-11 s CAP, CERAMIC 56PF 50V 5%	---> DELETED.
709)	C162	1-101-884-00 s CERAMIC 56pF 5% 50V	---> 1-162-924-11 s CERAMIC 56PF 5% 50V
709)	C35	1-131-367-00 s TANTALUM 22uF 10% 20V	---> 1-104-852-11 s TANTALUM, CHIP 22uF 20% 10V
709)	C39	NOT IN USE.	---> 1-164-156-11 s CERAMIC 0.1uF 25V
709)	C40	NOT IN USE.	---> 1-164-156-11 s CERAMIC 0.1uF 25V
709)	C41	NOT IN USE.	---> 1-164-156-11 s CERAMIC 0.1uF 25V
709)	C49	NOT IN USE.	---> 1-164-156-11 s CERAMIC 0.1uF 25V
709)	C51	NOT IN USE.	---> 1-164-156-11 s CERAMIC 0.1uF 25V
709)	C6	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V	---> 1-104-914-11 s TANTAL 22uF 20% 16V
709)	C87	1-115-156-11 s CAP, CERAMIC 1uF 10V	---> 1-164-156-11 s CERAMIC 0.1uF 25V
709)	C88	1-115-156-11 s CAP, CERAMIC 1uF 10V	---> 1-164-156-11 s CERAMIC 0.1uF 25V
709)	C99	1-115-156-11 s CAP, CERAMIC 1uF 10V	---> 1-164-156-11 s CERAMIC 0.1uF 25V
709)	IC25	8-759-079-79 s IC TC74VHC174FS(EL)	---> 8-759-524-21 s IC TC74VHC174FT(EL)
709)	Q18	NOT IN USE.	---> 8-729-927-68 s TRANSISTOR UMW1
709)	R107	1-216-821-11 s METAL, CHIP 1K 5% 1/16W	---> 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
711)	R107	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W	---> 1-218-698-11 s METAL 1.8K 0.50% 1/16W
709)	R125	1-214-579-00 s METAL 8.2K 1% 1/8W	---> 1-218-714-11 s METAL 8.2K 0.50% 1/16W
709)	R128	1-216-008-11 s METAL, CHIP 20 5% 1/10W	---> 1-218-651-11 s METAL 20 0.50% 1/16W
711)	R129	1-218-285-11 s METAL, CHIP 75 5% 1/16W	---> 1-218-665-11 s CHIP, METAL 75 0.50% 1/16W
709)	R130	1-216-813-11 s METAL, CHIP 220 5% 1/16W	---> 1-218-677-11 s CHIP, METAL 240 0.50% 1/16W
709)	R132	1-216-805-11 s METAL, CHIP 47 5% 1/16W	---> 1-216-810-11 s METAL, CHIP 120 5% 1/16W
711)	R132	1-216-810-11 s METAL, CHIP 120 5% 1/16W	---> 1-218-670-11 s METAL 120 0.50% 1/16W
709)	R133	1-216-008-11 s METAL, CHIP 20 5% 1/10W	---> 1-218-651-11 s METAL 20 0.50% 1/16W

(DVP-12 BOARD)

711) R134	1-218-285-11 s METAL, CHIP 75 5% 1/16W	--->	1-218-665-11 s CHIP, METAL 75 0.50% 1/16W
711) R136	1-216-797-11 s METAL, CHIP 10 5% 1/16W	--->	1-218-644-11 s METAL 10 0.50% 1/16W
709) R20	NOT IN USE.	--->	1-216-801-11 s METAL, CHIP 22 5% 1/16W
711) R20	1-216-801-11 s METAL, CHIP 22 5% 1/16W	--->	1-218-664-11 s METAL 68 0.50% 1/16W

VSE-30 BOARD
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709) C207	1-164-156-11 s CERAMIC 0.1uF 25V	--->	1-128-405-11 s ELECT 22uF 20% 50V
709) C22	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V	--->	1-113-981-11 s TANTALUM,CHIP 22uF 20% 20V
709) C227	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V	--->	1-126-391-11 s ELECT 47uF 20% 6.3V
709) C24	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V	--->	1-113-981-11 s TANTALUM,CHIP 22uF 20% 20V
709) C251	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V	--->	1-126-391-11 s ELECT 47uF 20% 6.3V
709) C252	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V	--->	1-126-391-11 s ELECT 47uF 20% 6.3V
709) C254	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V	--->	1-126-391-11 s ELECT 47uF 20% 6.3V
709) C255	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V	--->	1-126-391-11 s ELECT 47uF 20% 6.3V
709) C257	NOT IN USE.	--->	1-128-405-11 s ELECT 22uF 20% 50V
709) C258	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V	--->	1-126-391-11 s ELECT 47uF 20% 6.3V
709) C259	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V	--->	1-126-391-11 s ELECT 47uF 20% 6.3V
709) C37	NOT IN USE.	--->	1-164-156-11 s CERAMIC 0.1uF 25V
709) C38	NOT IN USE.	--->	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
709) C39	NOT IN USE.	--->	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
709) C40	NOT IN USE.	--->	1-126-391-11 s ELECT 47uF 20% 6.3V
709) C43	NOT IN USE.	--->	1-126-391-11 s ELECT 47uF 20% 6.3V
709) C45	1-131-367-00 s TANTALUM 22uF 10% 20V	--->	1-113-981-11 s TANTALUM,CHIP 22uF 20% 20V
709) C46	1-131-367-00 s TANTALUM 22uF 10% 20V	--->	1-113-981-11 s TANTALUM,CHIP 22uF 20% 20V
709) C47	1-131-367-00 s TANTALUM 22uF 10% 20V	--->	1-113-981-11 s TANTALUM,CHIP 22uF 20% 20V
709) C48	1-131-367-00 s TANTALUM 22uF 10% 20V	--->	1-113-981-11 s TANTALUM,CHIP 22uF 20% 20V
709) C519	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V	--->	1-113-981-11 s TANTALUM,CHIP 22uF 20% 20V
709) C520	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V	--->	1-113-981-11 s TANTALUM,CHIP 22uF 20% 20V
709) C523	1-115-156-11 s CERAMIC 1uF 10V	--->	1-113-981-11 s TANTALUM,CHIP 22uF 20% 20V
709) C53	NOT IN USE.	--->	1-126-391-11 s ELECT 47uF 20% 6.3V
709) C54	NOT IN USE.	--->	1-126-391-11 s ELECT 47uF 20% 6.3V
709) C55	NOT IN USE.	--->	1-164-156-11 s CERAMIC 0.1uF 25V
709) C56	NOT IN USE.	--->	1-164-156-11 s CERAMIC 0.1uF 25V
709) C57	NOT IN USE.	--->	1-126-391-11 s ELECT 47uF 20% 6.3V
709) C59	NOT IN USE.	--->	1-126-391-11 s ELECT 47uF 20% 6.3V
709) C60	NOT IN USE.	--->	1-126-391-11 s ELECT 47uF 20% 6.3V
709) C61	NOT IN USE.	--->	1-126-391-11 s ELECT 47uF 20% 6.3V
709) D500	8-719-024-81 s DIODE 1SS300-TE85L	--->	DELETED.
709) D501	8-719-404-35 s DIODE MA141WK	--->	DELETED.
709) D502	8-719-024-81 s DIODE 1SS300-TE85L	--->	DELETED.
709) D503	8-719-404-35 s DIODE MA141WK	--->	DELETED.
709) L12	NOT IN USE.	--->	1-412-030-11 s INDUCTOR CHIP 22uH
709) L13	NOT IN USE.	--->	1-412-030-11 s INDUCTOR CHIP 22uH
709) L14	NOT IN USE.	--->	1-412-030-11 s INDUCTOR CHIP 22uH
709) L15	NOT IN USE.	--->	1-412-030-11 s INDUCTOR CHIP 22uH
709) L16	NOT IN USE.	--->	1-412-030-11 s INDUCTOR CHIP 22uH
709) L17	NOT IN USE.	--->	1-412-030-11 s INDUCTOR CHIP 22uH
709) L18	NOT IN USE.	--->	1-412-030-11 s INDUCTOR CHIP 22uH
709) L19	NOT IN USE.	--->	1-412-030-11 s INDUCTOR CHIP 22uH
709) L20	NOT IN USE.	--->	1-412-030-11 s INDUCTOR CHIP 22uH
709) L21	NOT IN USE.	--->	1-412-030-11 s INDUCTOR CHIP 22uH
709) R238	1-216-797-11 s METAL, CHIP 10 5% 1/16W	--->	DELETED.
709) R239	1-216-797-11 s METAL, CHIP 10 5% 1/16W	--->	DELETED.
709) R278	1-216-837-11 s METAL, CHIP 22K 5% 1/16W	--->	1-218-881-11 s CHIP, METAL 27K 0.50% 1/16W
709) R279	1-216-837-11 s METAL, CHIP 22K 5% 1/16W	--->	1-218-881-11 s CHIP, METAL 27K 0.50% 1/16W
709) R86	1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W	--->	DELETED.

Section 5
Semiconductor Pin Assignments

ここに記載されている半導体は，それぞれの機能を等価的に表したものです。　なお，互換性のない型名を併記していることがありますので，部品を交換するときは，Spare Partsの章を参照してください。
等価回路はＩＣメーカーのデータブックに従いました。

Semiconductors of which functions are equivalent are described here. For parts replacement, refer to the section of Spare Parts in this manual. The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

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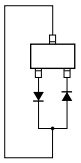
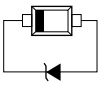
DIODE

—TOP VIEW—



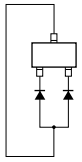
1SS226
1SS226-TE85L
MA3J74200LSO

—TOP VIEW—



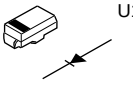
RD15UJN-T1
RD4.7UJN-T1

—TOP VIEW—

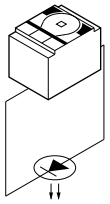


1SS300-TE85L
HSM88WA
HSM88WA-TL

—TOP VIEW—

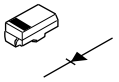


U1FWJ44N(TE12R)



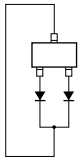
CL-200HR-C-TSL ; RED

—TOP VIEW—



DSM3MA-T

—TOP VIEW—



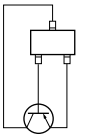
1SS301-TE85L
HSMP-3894
MA141WK
U2993

—TOP VIEW—

RD10M-B1
RD10M-T1B1
RD2.0M-T1B
RD2.0MB
RD4.7M-B
RD4.7M-T1B

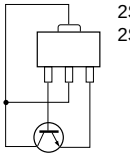
TRANSISTOR

—TOP VIEW—



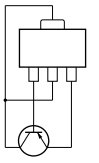
2SA1610-T1Y33
2SA1610-Y33
2SA1611-M5M6
2SA1611T1-M5M6
2SA1808-PT106
2SB624-BV345
2SB624-T1BV4

—TOP VIEW—

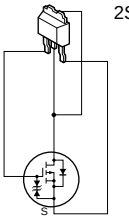


2SC2873Y-TE12L
2SD1623-S

—TOP VIEW—

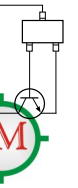


2SA1213Y-TE12L
2SA1766-TD
2SB1114-T1ZL
2SB1121-ST
2SB798-DL



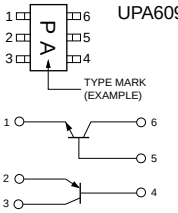
2SJ182S

—TOP VIEW—



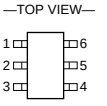
2SC3115-D27
2SC3115-T1D27
2SC3356-K
2SC3356-R24
2SC3356-T1K
2SC3356-T1R24
2SC3734-L-B24
2SC3734-T1B-B24
2SC4177-L6
2SC4177-T1L5L6
2SC4184-T1T43
2SC4184-T2T43
2SC4184-T43
2SD596-T1DV4
2SD596DV345

—TOP VIEW—



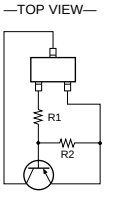
UPA609T-E1

—TOP VIEW—



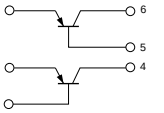
XP6435-TX

—TOP VIEW—

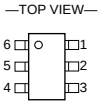


DTA144EUA-T106
(R1=47 K, R2=47 K)

—TOP VIEW—

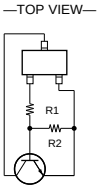


—TOP VIEW—



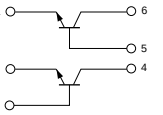
XP6534-TX

—TOP VIEW—



DTC144EUA-T106
(R1=47 K, R2=47 K)

—TOP VIEW—

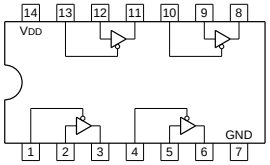


IC

74LCX125MTCX

C-MOS BUS BUFFER GATES WITH 3-STATE OUTPUT

—TOP VIEW—



G	A	Y
0	0	0
0	1	1
1	×	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

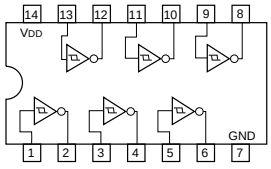
NOTE :

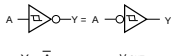
TYPE	VDD
74AC/ 74VHC	+2 to +5.5V
74ACT/74HCT	+4.5 to +5.5V
74LCX	+2 to +3.6V
74LVT/74LVC	+2.7 to +3.6V
OTHER TYPES	+2 to +6V

74LCX14MTCX (NS)FLAT PACKAGE

C-MOS HEX SCHMITT TRIGGER INVERTERS

—TOP VIEW—

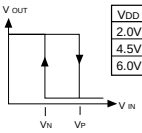


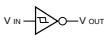


$Y = \overline{A}$

A	Y
0	1
1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL





VDD	VN	VP
2.0V	0.75V	1.25V
4.5V	1.9V	2.7V
6.0V	2.6V	3.6V

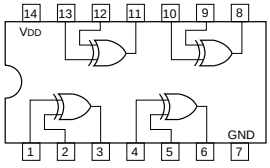
NOTE :

TYPE	VDD
74LCX	+2 to +3.6V
TC74AC/VHC	+2 to +5.5V
OTHER TYPES	+2 to +6V

74LCX86MTCX (NS)FLAT PACKAGE

C-MOS QUAD EXCLUSIVE OR GATES

—TOP VIEW—



$Y = \overline{A} \cdot B + A \cdot \overline{B}$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

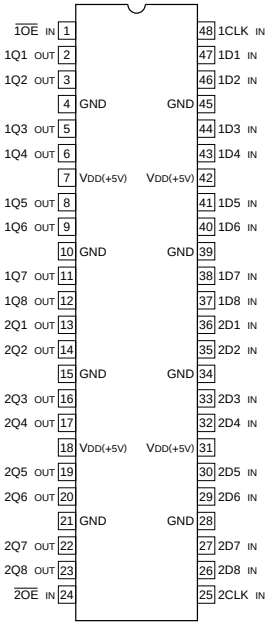
NOTE :

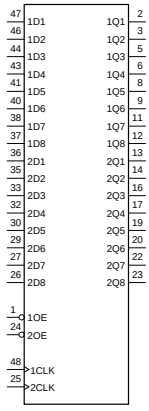
TYPE	VDD
74AC/74VHC	+2 to +5.5V
74ACT/74HCT	+4.5 to +5.5V
74LCX	+2 to +3.6V
OTHER TYPES	+2 to +6V

74LCX16374MTDX (NS)FLAT PACKAGE

C-MOS 3-STATE 16-BIT D-TYPE FLIP-FLOP

—TOP VIEW—





INPUT

1CLK, 2CLK ; CLOCK
1D1 - 1D8, 2D1 - 2D8 ; DATA
1OE, 2OE ; OUTPUT ENABLE

OUTPUT

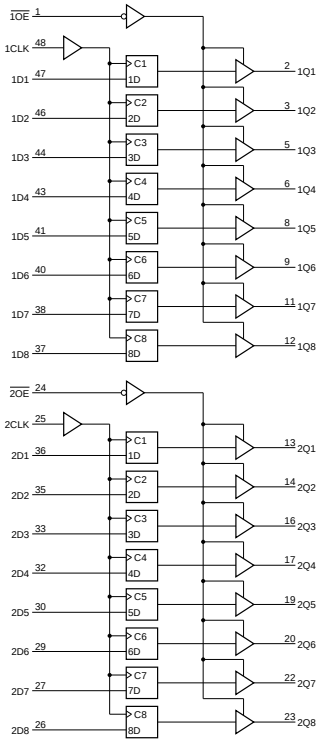
1Q1 - 1Q8, 2Q1 - 2Q8 ; DATA

INPUTS			OUTPUT
$\overline{OE}$	CLK	D	Q
0	↑	1	1
0	↑	0	0
0	0	×	Qo
1	×	×	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

NOTE :

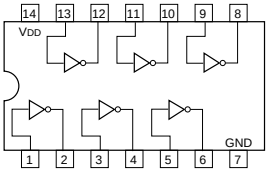
TYPE	VDD
ABT	+5V
LCX	+2 to +3.6V

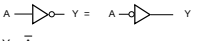


74VHC04MTCX (NS)FLAT PACKAGE

C-MOS HEX INVERTERS

—TOP VIEW—





$Y = \overline{A}$

A	Y
0	1
1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

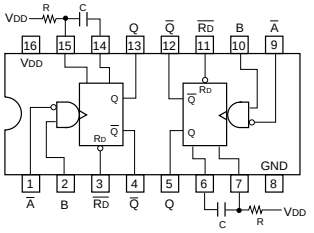
NOTE:

TYPE	VDD
74AC/74VHC/74VHCT	+2 to +5.5V
74ACT/74HCT	+4.5 to +5.5V
74LCX	+2 to +3.6V
OTHER TYPE	+2 to +6V

74VHC123AMTCX (NS)FLAT PACKAGE

C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATORS

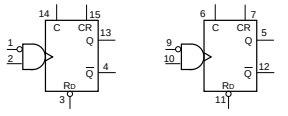
—TOP VIEW—



INPUTS			OUTPUTS	
RD	A	B	Q	Q̄
0	×	×	0	1
1	1	×	0	1
1	×	0	0	1
1	0	↓	⊓	⊔
1	↓	1	⊓	⊔
↓	0	1	⊓	⊔

0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE

OUTPUT PULSE WIDTH = 0.46 CR



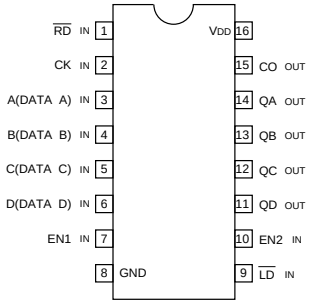
NOTE :

TYPE	VDD
TC74HC123AF	+5V
TC74VHC	+2V to +5.5V
OTHER TYPES	+2V to +6V

74VHC163MTCX (NS)FLAT PACKAGE

C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER

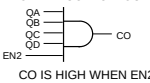
—TOP VIEW—



MODE SELECTION

CONTROL INPUTS				MODE
RD	LD	EN1	EN2	
0	×	×	×	RESET (SYNCHRONOUS)
1	0	×	×	PRESET (SYNCHRONOUS)
1	1	0	×	NO COUNT
1	1	×	0	NO COUNT
1	1	1	1	COUNT

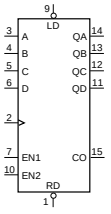
CARRY OUTPUT "CO"



CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS "15".

NOTE:

TYPE	VDD
HC	+2 to +6V
AC/VHC	+2 to +5.5V
HCT/ACT/FCT	+5V



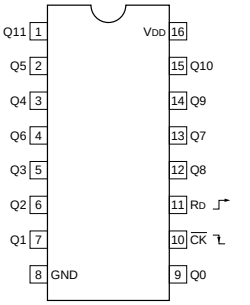
COUNT SEQUENCE

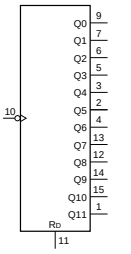
COUNT	OUTPUTS			
	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

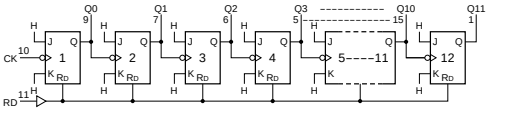
74VHC4040MX (NS)FLAT PACKAGE

C-MOS 12-STAGE RIPPLE CARRY BINARY COUNTER/DRIVER

—TOP VIEW—







COUNT	Q11	Q10	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q2	Q1	Q0
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	1	0
3	0	0	0	0	0	0	0	0	0	0	1	1
4095	1	1	1	1	1	1	1	1	1	1	1	1

RD	Q11--------Q0
1	ALL LOW
0	COUNT

0 ; LOW LEVEL
1 ; HIGH LEVEL

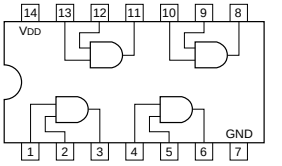
NOTE :

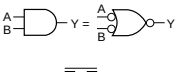
TYPE	VDD
HC	+2 to +6V
VHC	+2 to +5.5V

74VHCT08MTCX (NS)FLAT PACKAGE

C-MOS QUAD 2-INPUT AND GATE

—TOP VIEW—





$Y = A \bullet B = \overline{\overline{A} + \overline{B}}$

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL

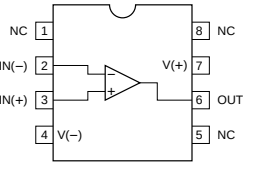
NOTE;

TYPE	VDD
74AC	+2 to +5.5V
40H	+2 to +8V
74ACT/74HCT/74VHCT	+4.5 to +5.5V
74LCX	+2 to +3.6V
OTHER TYPES	+2 to +6V

AD8001AR-REEL (AD)FLAT PACKAGE

OPERATIONAL AMPLIFIER

—TOP VIEW—



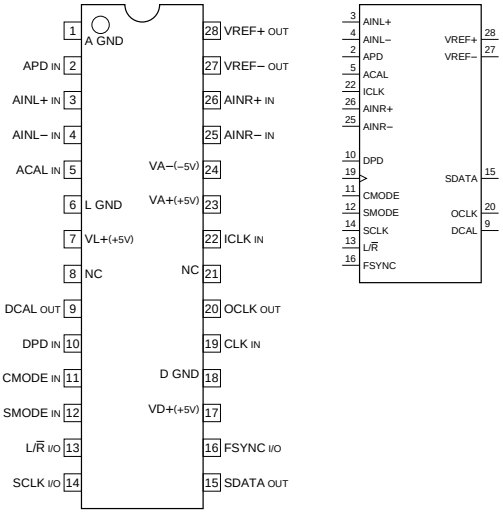
NOTE :

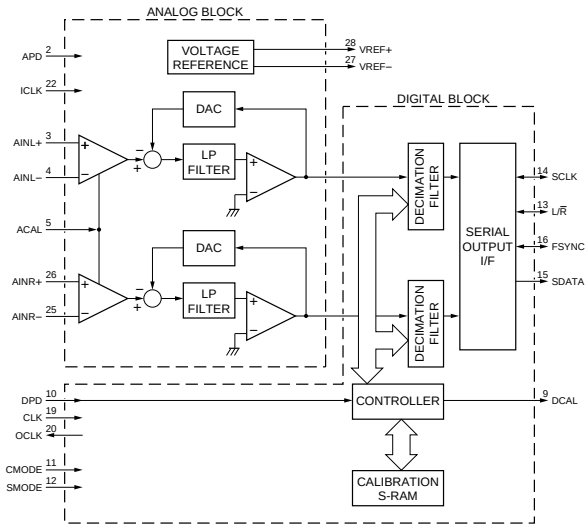
TYPE	POWER SUPPLY		
	DUAL	SINGLE	
		V(+)	V(–)
AD8001AR	±3 to ±6V	+6 to +12V	GND
AD8011AR	±5V	+5V	GND

AK5390-VS (ASAHI KASEI)FLAT PACKAGE

18-BIT STEREO A-D CONVERTER

—TOP VIEW—





INPUT

ACAL ; ANALOG CALIBRATION
(H : AGND)
(L : ANALOG SIGNAL INPUT = AINL, AINR)
AINL + ; CAHNNEL L ANALOG POSITIVE INPUT
AINL – ; CAHNNEL L ANALOG NEGATIVE INPUT
AINR + ; CAHNNEL R ANALOG POSITIVE INPUT
AINR – ; CAHNNEL R ANALOG NEGATIVE INPUT
APD ; POWER DOWN FOR ANALOG SECTION
CLK ; MASTER CLOCK
(CMODE = H : 384fs)
(CMODE = L : 256fs)
CMODE ; MASTER CLOCK SELECT
(L : CLK = 256fs, 12.288 MHz @fs = 48 KHz)
(H : CLK = 384fs, 18.432 MHz @fs = 48 KHz)
DPD ; POWER DOWN FOR DIGITAL SECTION
ICLK ; 128fs CLOCK
SMODE ; INTERFACE CLOCK SELECT
(L : SUB MODE)
(H : MASTER MODE)

OUTPUT

DCAL ; DIGITAL CALIBRATION
OCLK ; 128fs CLOCK
SDATA ; SERIAL DATA
VREF + ; REFERENCE POSITIVE VOLTAGE (+3.68 V)
VREF – ; REFERENCE NEGATIVE VOLTAGE (–3.68 V)

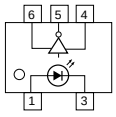
INPUT/OUTPUT

FSYNC ; FRAME SYNC CLOCK
L/R ; INPUT CAHNNEL SELECT
(SUB MODE : fs CLK INPUT)
(MASTER MODE : fs CLK OUTPUT)
SCLK ; SERIAL DATA CLOCK
(SUB MODE : 64fs CLK INPUT)
(MASTER MODE : 64fs CLK OUTPUT)

HCPL-M600-500 (HP)FLAT PACKAGE

PHOTOCOUPLER

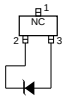
—TOP VIEW—



LM4040AIM3-2.5 (NS)

PRECISION MICROPOWER SHUNT VOLTAGE REFERENCE

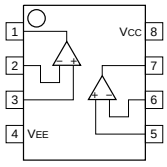
—TOP VIEW—



NJM4556AM-A-TE2 (JRC)
NJM4558V-TE2 (JRC)FLAT PACKAGE(SMALL)
TL062CPW (TI)FLAT PACKAGE
TL062CPW-E05

DUAL OPERATIONAL AMPLIFIERS
(DUAL-SUPPLY TYPE)

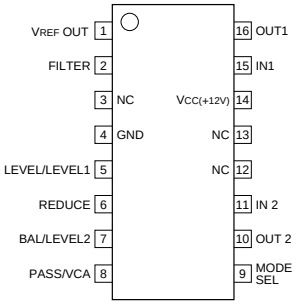
—TOP VIEW—

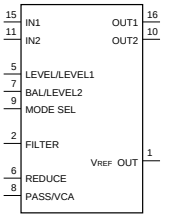


TYPE	VCC	VEE
062/072/082/4556A/ M5218/BA15218/ 33178/34182 TYPES	+2 to +16V	–2 to –16V
4580 TYPE	+2 to +18V	–2 to –18V
5532 TYPE	+3 to +20V	–3 to –20V
CXA1297 TYPE	+5 to +12V	–5 to –12V
M5219/M5220 TYPES	+5 to +22.5V	–5 to –22.5V
MC33077DR2	+2.5 to +18V	–2.5 to –18V
NJM2100 TYPE	+1 to +3.5V	–1 to –3.5V
OP-297 TYPE	+2 to +20V	–2 to –20V
OTHERS	+5 to +16V	–5 to –16V

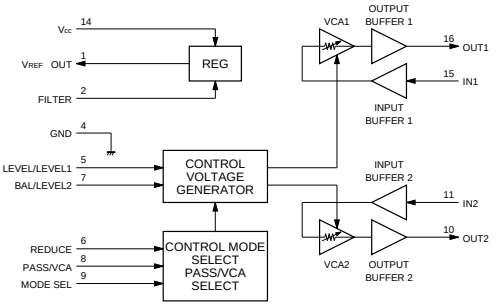
M51132FP-E1
M51132FP (MITSUBISHI)FLAT PACKAGE

2-CHANNEL ELECTRONIC LEVEL CONTROL
—TOP VIEW—



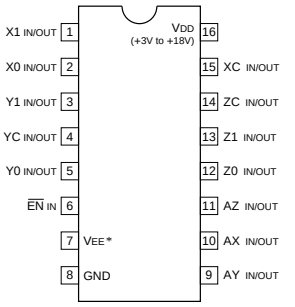


BAL/LEVEL2	;	BALANCE/LEVEL2 CONTROL
FILTER	;	FILTER
IN1	;	INPUT 1
IN2	;	INPUT 2
MODE SEL	;	MODE SELECT
OUT1	;	OUTPUT 1
OUT2	;	OUTPUT 2
PASS/VCA	;	PASS/VCA CONTROL SWITCH
REDUCE	;	SWITCHING NOISE REDUCE
LEVEL/LEVEL1	;	LEVEL/LEVEL1 CONTROL
VREF OUT	;	REFERENCE VOLTAGE OUTPUT

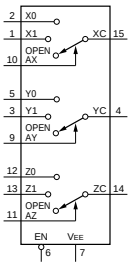


MC14053BF (MOTOROLA)FLAT PACKAGE
MC14053BFEL

C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXERS/DEMULTIPLEXERS
—TOP VIEW—



VEE*; VDD – VEE + 3V + 18V

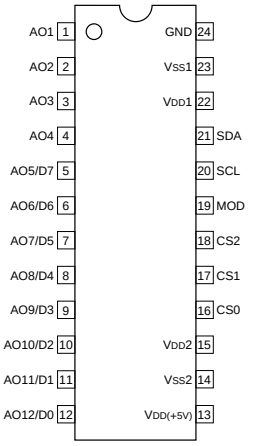


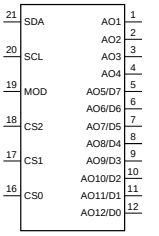
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

CONT. INPUTS		ON
EN	A (X, Y, Z)	CHANNEL
0	0	0
0	1	1
1	X	OPEN

MB88141PF-ER (FUJITSU)FLAT PACKAGE

C-MOS D/A CONVERTER
—TOP VIEW—





VDD ≧ VDD1 > VSS1
VDD1 – VSS1 ≧ +2.0V
VDD ≧ VDD2 > VSS2
VDD2 – VSS2 ≧ +2.0V

INPUT

CS0 - CS2	;	CHIP SELECT
MOD	;	MODE SELECT (* NOTE)
SCL	;	SHIFT CLOCK

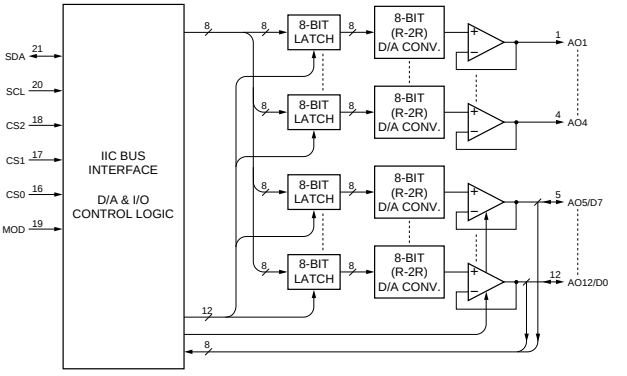
INPUT/OUTPUT

D0 - D7	;	PARALLEL DATA
SDA	;	SERIAL DATA

OUTPUT
AO1 - AO12 ; 8-BIT D/A

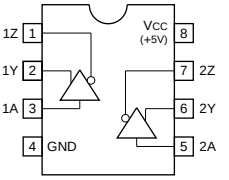
* NOTE :

	CS2	D/A CONVERTER	I/O EXPAND
H	0	4ch (AO1 - AO4)	8-BIT (D7 - D0)
	1	8ch (AO1 - AO8)	4-BIT (D3 - D7)
L	D/A CONVERTER		



SN75158PS (TI)
SN75158PS-E05

DUAL DIFFERENTIAL LINE DRIVE
— TOP VIEW —

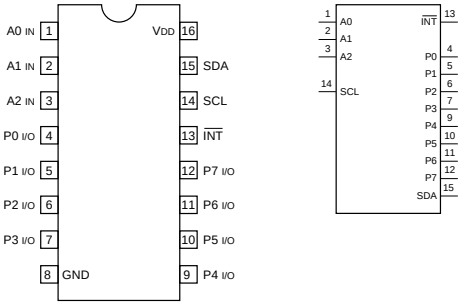


http://getMANUAL.com

PCF8574T-T (PHILIPS)

C-MOS REMOTE 8-BIT I/O EXPANDER

—TOP VIEW—



INPUT

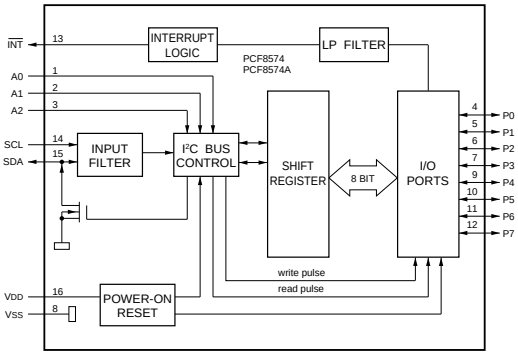
A0 - A2 ; ADDRESS INPUTS
SCL ; SYSTEM CLOCK LINE

OUTPUT

$\overline{INT}$; INTERRUPT OUTPUT
SDA ; SERIAL DATA LINE

INPUT/OUTPUT

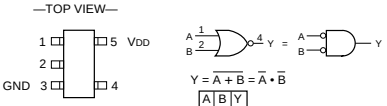
P0 - P7 ; 8-BITS QUASI-BIDIRECTIONAL I/O PORT



TC4S01F (TOSHIBA)CHIP PACKAGE
TC4S01F(TE85R)

C-MOS 2-INPUT NOR GATE

—TOP VIEW—



A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

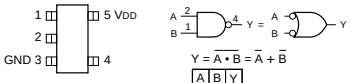
0 ; LOW LEVEL
1 ; HIGH LEVEL

TYPE	VDD
4S01F	+3 to +18V
7S02F 7S02FU 7SH02FU	+2 to +6V

TC4S11F (TOSHIBA)CHIP PACKAGE
TC4S11F(TE85R)

C-MOS 2-INPUT NAND GATE

—TOP VIEW—



A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

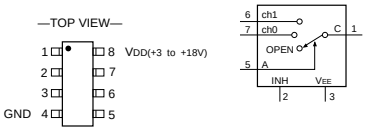
0 ; LOW LEVEL
1 ; HIGH LEVEL

TYPE	VDD
7S00F 7S00FU	+2 to +6V
4S11F 4SU11F	+3 to +18V
7SH00FU	+2 to +5.5V

TC4W53FU (TOSHIBA)CHIP PACKAGE
TC4W53FU(TE12R)

C-MOS 2-CHANNEL MULTIPLEXER / DEMULTIPLEXER

—TOP VIEW—



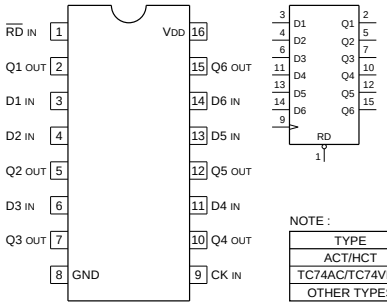
CONT.INPUT		ON
INH	A	CHANNEL
0	0	ch0
0	1	ch1
1	X	OPEN

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

TC74VHC174FS(EL) (TOSHIBA)FLAT PACKAGE(SMALL)

C-MOS D-TYPE FLIP-FLOP WITH RESET

—TOP VIEW—



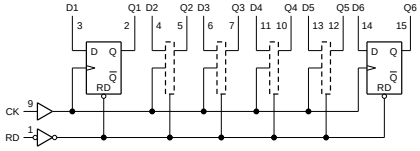
EACH FLIP-FLOP

INPUTS			OUT
RD	CK	D	Q
0	X	X	0
1	↑	0	0
1	↑	1	1
1	0	X	Q_0

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

NOTE :

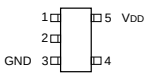
TYPE	VDD
ACT/HCT	+5V
TC74AC/TC74VHC	+2 to +5.5V
OTHER TYPES	+2 to +6V



TC7S86F(TE85R)
TC7S86F-TE85L (TOSHIBA)FLAT PACKAGE

C-MOS 2-INPUT EXCLUSIVE OR GATE

—TOP VIEW—



$Y = \overline{A} \cdot B + A \cdot \overline{B}$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

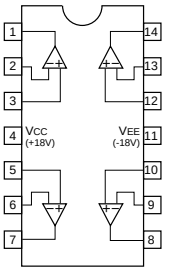
0 ; LOW LEVEL
1 ; HIGH LEVEL

TYPE	VDD
7S86FU 7S86F	+2 to +6V
4S30F	+3 to +18V
7SH86FU	+2 to +5.5V

TL064CPW (TI)FLAT PACKAGE
TL064CPW-E05

OPERATIONAL AMPLIFIER
(J FET INPUT)

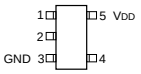
—TOP VIEW—

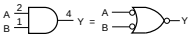


TC7SH08FU-TE85R (TOSHIBA)CHIP PACKAGE

C-MOS 2-INPUT AND GATE

—TOP VIEW—





$Y = A \cdot B = \overline{\overline{A} + \overline{B}}$

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

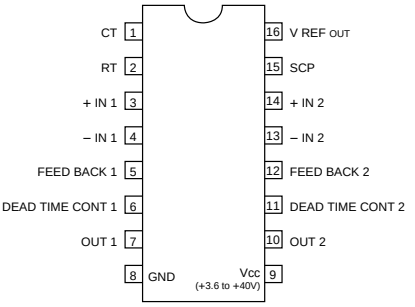
0 ; LOW LEVEL
1 ; HIGH LEVEL

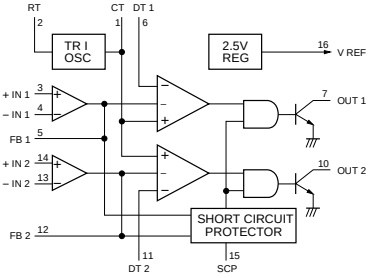
TYPE	VDD
7S08F 7S08FU	+2 to +6V
4S81F 14S81F	+3 to +18V
7SH08FU 7SH08F	+2 to +5.5V

TL1451ACPW-E05 (TI)FLAT PACKAGE
TL1451ACPW-E20 (TI)FLAT PACKAGE

DUAL PWM POWER CONTROLLER

—TOP VIEW—

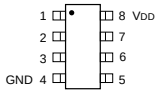


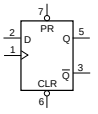


TC7WH74FU(TR12R) (TOSHIBA)CHIP PACKAGE

C-MOS D-TYPE FLIP-FLOPS WITH PRESET AND CLEAR

—TOP VIEW—





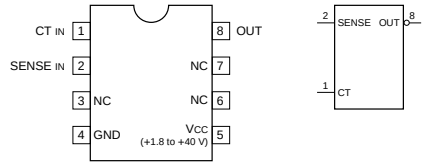
TYPE	VDD
7W74F 7W74FU	+2 to +6V
7WH74FU	+2 to +5.5V

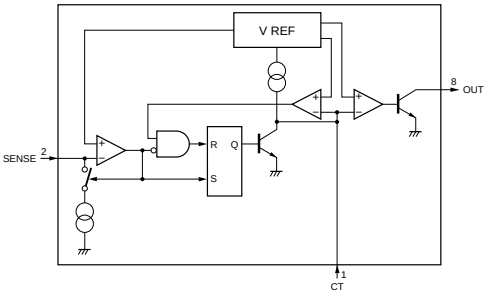
INPUTS				OUTPUTS		FUNCTION
$\overline{CLR}$	$\overline{PR}$	CK	D	Qn+1	$\overline{Qn+1}$	
0	1	×	×	0	1	CLEAR
1	0	×	×	1	0	PRESET
0	0	×	×	1	1	–
1	1	↑	0	0	1	–
1	1	↑	1	1	0	–
1	1	↓	×	Qn	$\overline{Qn}$	NO CHANGE

0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE

TL7700CPS (TI)FLAT PACKAGE
TL7700CPS-E05

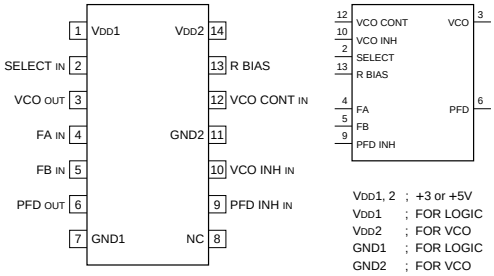
VARIABLE SUPPLY VOLTAGE SUPERVISOR
—TOP VIEW—





TLC2932IPW (TI)
TLC2932IPW-E05

C-MOS VCO AND PHASE FREQUENCY DETECTOR
—TOP VIEW—

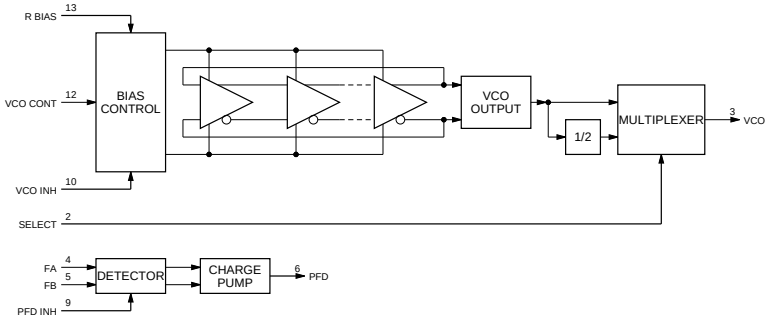


VDD1, 2 ; +3 or +5V
VDD1 ; FOR LOGIC
VDD2 ; FOR VCO
GND1 ; FOR LOGIC
GND2 ; FOR VCO

INPUT
FA ; REFERENCE FREQUENCY
FB ; INPUT FREQUENCY FROM OUTSIDE COUNTER
PFD INH ; PFD INHIBIT
SELECT ; VCO OUTPUT FREQUENCY SELECT
VCO CONT ; VCO CONTROL VOLTAGE
VCO INH ; VCO INHIBIT

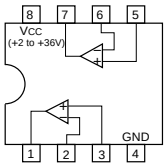
OUTPUT
PFD ; PHASE FREQUENCY DETECTOR
VCO ; VOLTAGE CONTROLLED OSCILLATOR

OTHER
R BIAS ; BIAS RESISTOR FOR VCO OSCILLATION FREQUENCY SETTING



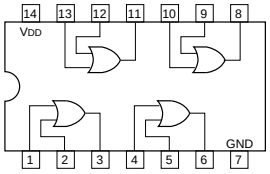
UPC393G2 (NEC)FLAT PACKAGE
UPC393G2-E2

DUAL VOLTAGE COMPARATORS
—TOP VIEW—



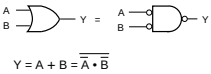
74VHC32MTCX

C-MOS QUAD 2-INPUT OR GATES
—TOP VIEW—



NOTE:

TYPE	VDD
74AC/74VHC	+2 to +5.5V
74HC	+2 to +6V
74HCT	+4.5 to +5.5V

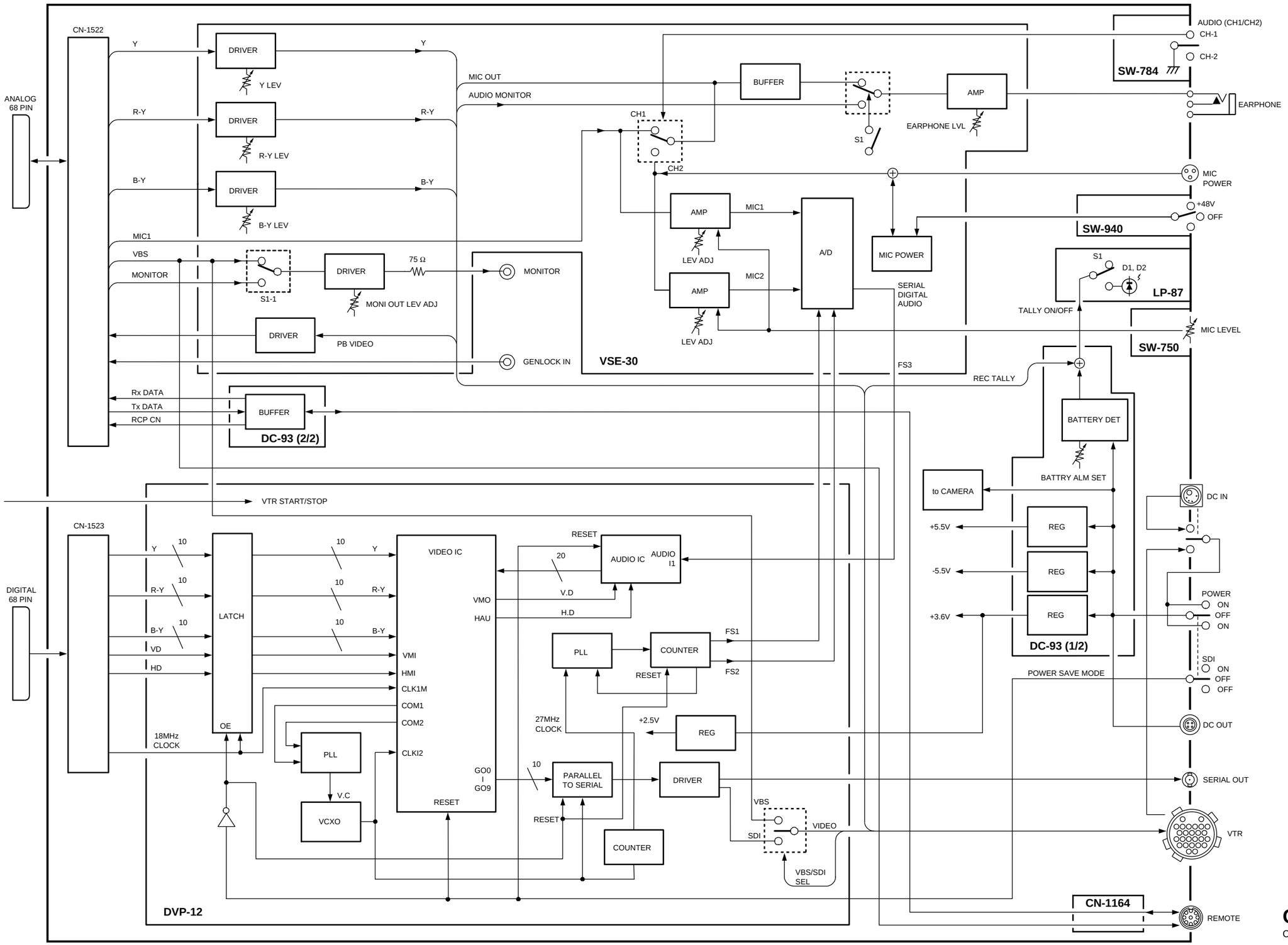


$Y = A + B = \overline{\overline{A} \cdot \overline{B}}$

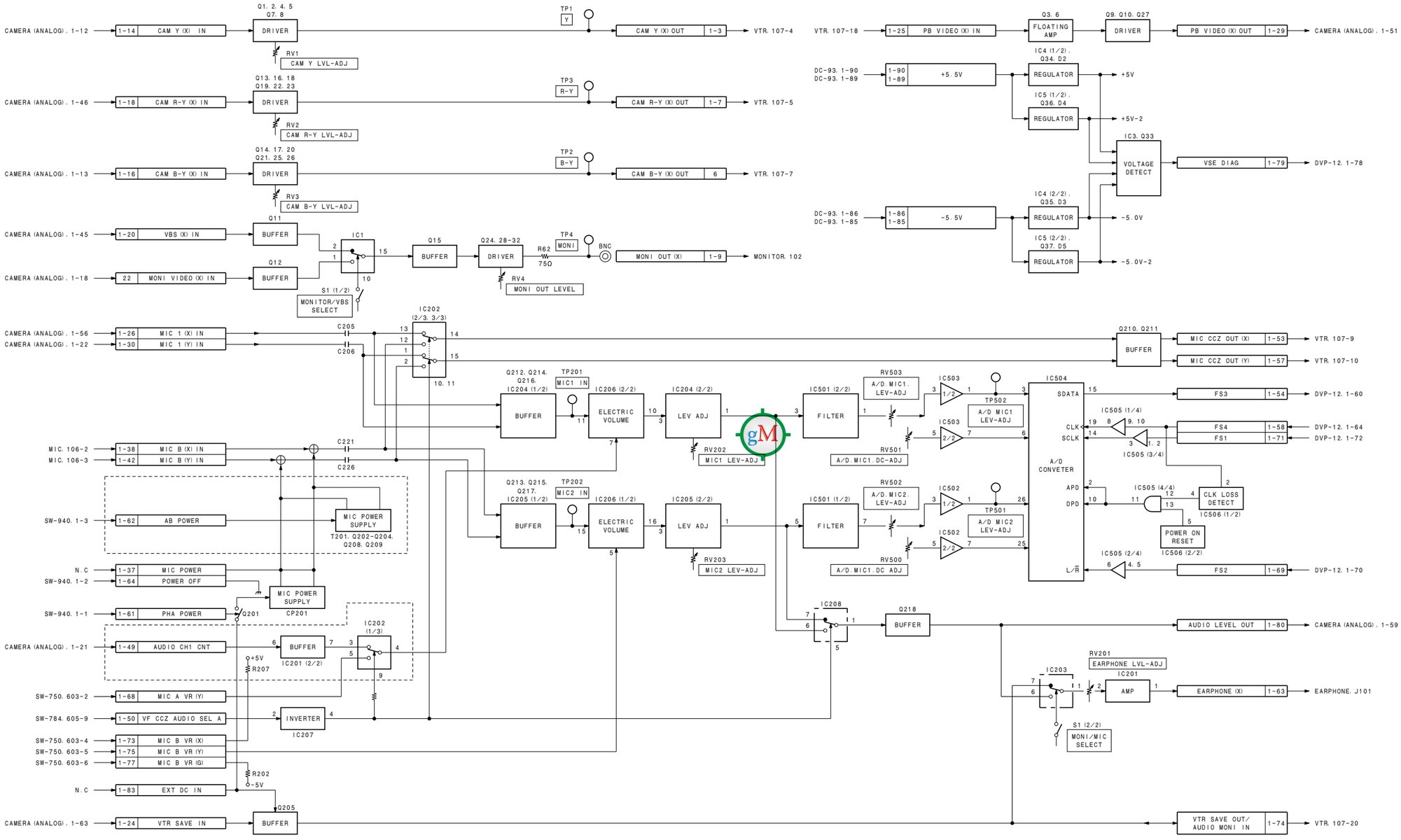
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL

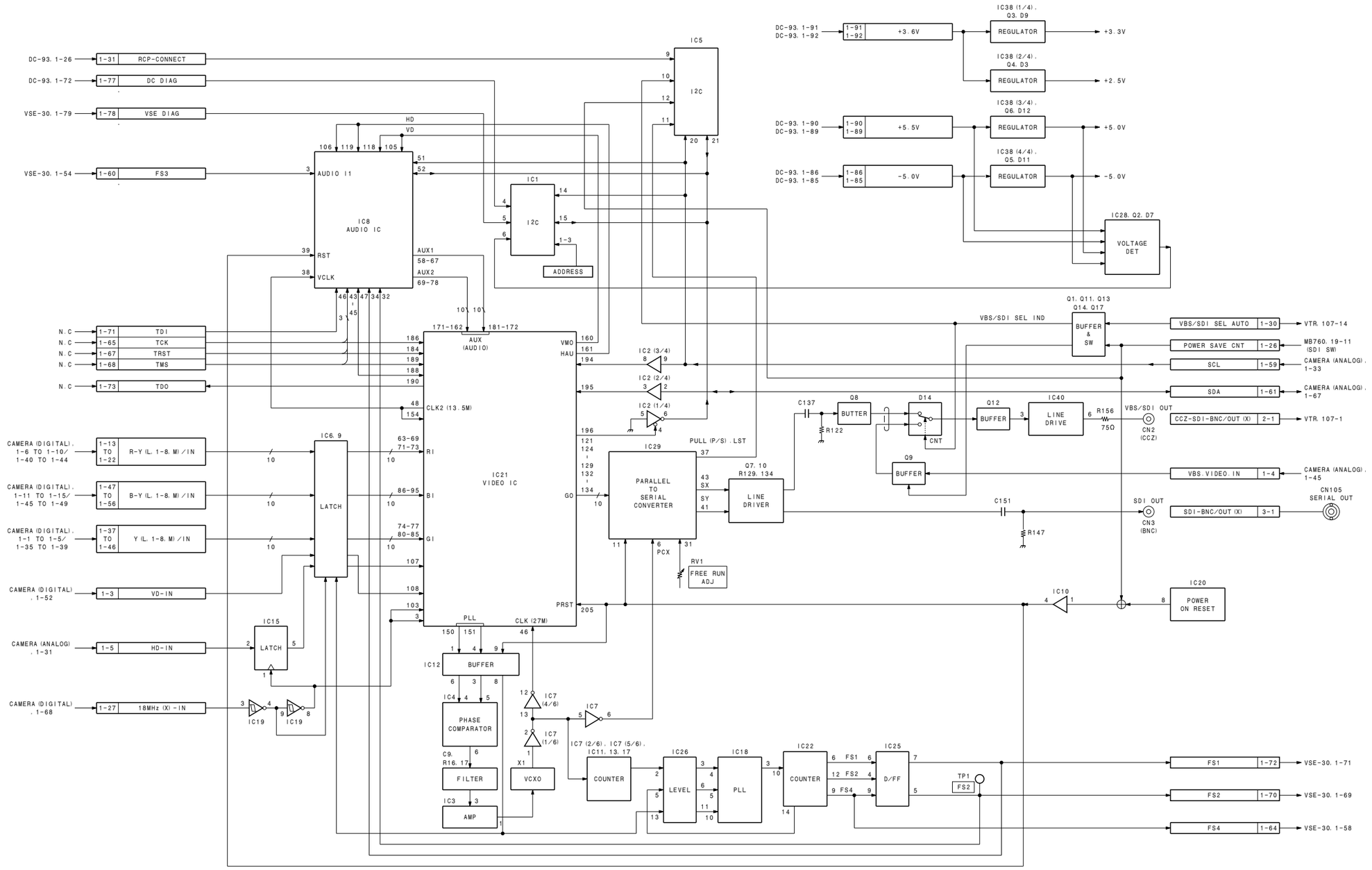
Section 6
Block Diagrams



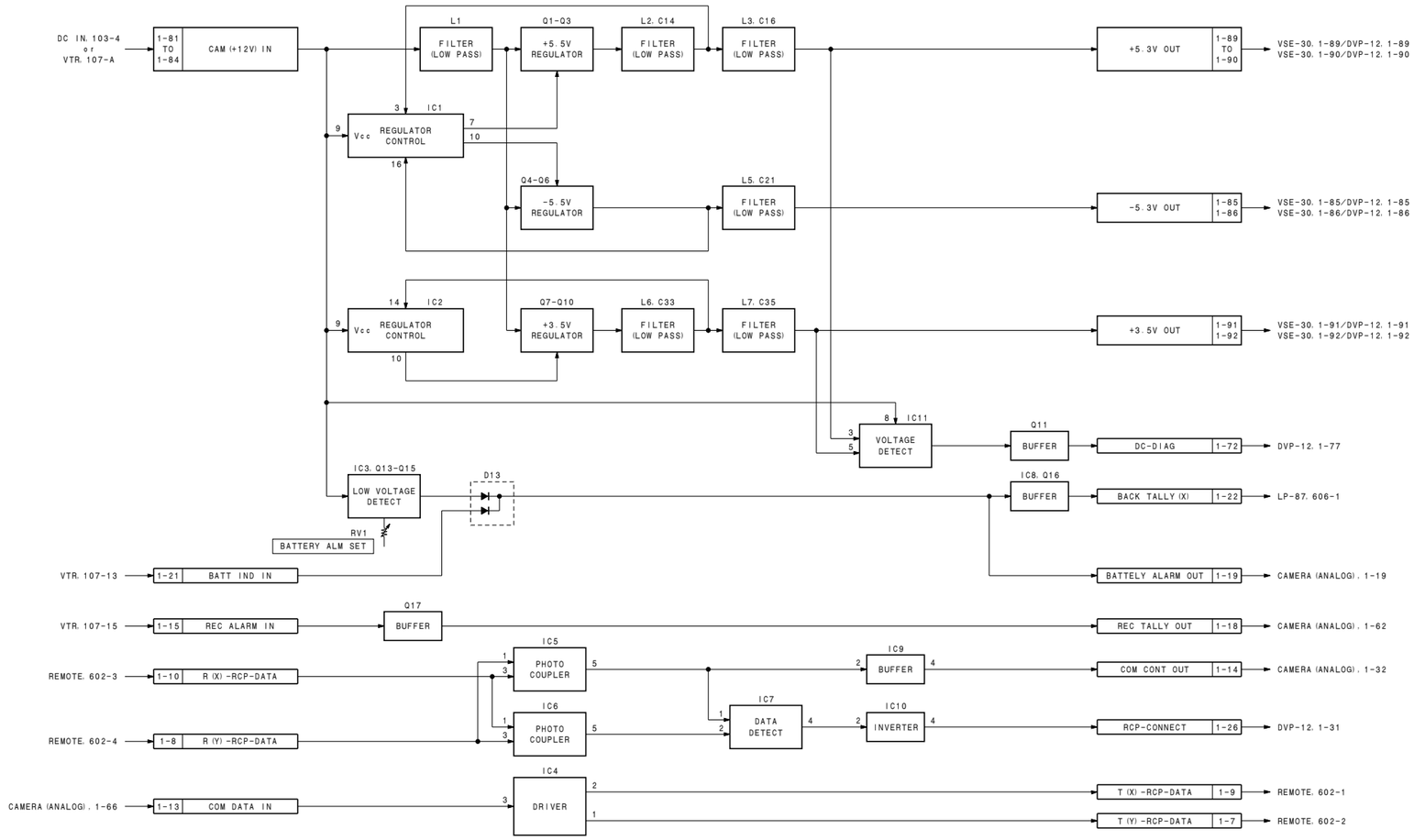
Overall Block
CA-530


CAMERA (ANALOG), 1-12
1-14 CAM Y (X) IN
Q1, 2, 4, 5 Q7, 8
DRIVER
RV1 CAM Y LVL-ADJ
TP1 Y
CAM Y (X) OUT 1-3
VTR. 107-4
CAMERA (ANALOG), 1-46
1-18 CAM R-Y (X) IN
Q13, 16, 18 Q19, 22, 23
DRIVER
RV2 CAM R-Y LVL-ADJ
TP3 R-Y
CAM R-Y (X) OUT 1-7
VTR. 107-5
CAMERA (ANALOG), 1-13
1-16 CAM B-Y (X) IN
Q14, 17, 20 Q21, 25, 26
DRIVER
RV3 CAM B-Y LVL-ADJ
TP2 B-Y
CAM B-Y (X) OUT 6
VTR. 107-7
CAMERA (ANALOG), 1-45
1-20 VBS (X) IN
Q11 BUFFER
CAMERA (ANALOG), 1-18
22 MONI VIDEO (X) IN
Q12 BUFFER
IC1
S1 (1/2) MONITOR/VBS SELECT
Q15 BUFFER
Q24, 28-32 DRIVER
R62 75Ω
TP4 MONI
BNC
MONI OUT (X) 1-9
MONITOR. 102
RV4 MONI OUT LEVEL
VTR. 107-18
1-25 PB VIDEO (X) IN
Q3, 6 FLOATING AMP
Q9, Q10, Q27 DRIVER
PB VIDEO (X) OUT 1-29
CAMERA (ANALOG), 1-51
DC-93. 1-90
DC-93. 1-89
1-90
1-89
+5.5V
IC4 (1/2), Q34, D2 REGULATOR
+5V
IC5 (1/2), Q36, D4 REGULATOR
+5V-2
IC3, Q33 VOLTAGE DETECT
VSE DIAG 1-79
DVP-12. 1-78
DC-93. 1-86
DC-93. 1-85
1-86
1-85
-5.5V
IC4 (2/2), Q35, D3 REGULATOR
-5.0V
IC5 (2/2), Q37, D5 REGULATOR
-5.0V-2
CAMERA (ANALOG), 1-56
CAMERA (ANALOG), 1-22
1-26 MIC 1 (X) IN
1-30 MIC 1 (Y) IN
C205
C206
IC202 (2/3, 3/3)
10, 11
Q210, Q211 BUFFER
MIC CCZ OUT (X) 1-53
VTR. 107-9
MIC CCZ OUT (Y) 1-57
VTR. 107-10
MIC. 106-2
MIC. 106-3
1-38 MIC B (X) IN
1-42 MIC B (Y) IN
C221
C226
Q212, Q214, Q216, IC204 (1/2) BUFFER
TP201 MIC1 IN
IC206 (2/2) ELECTRIC VOLUME
IC204 (2/2) LEV ADJ
RV202 MIC1 LEV-ADJ
IC501 (2/2) FILTER
RV503 A/D. MIC1. LEV-ADJ
RV501 A/D. MIC1. DC-ADJ
IC503 1/2
IC503 2/2
TP502 A/D MIC1 LEV-ADJ
IC504 A/D CONVETER
SDATA
CLK
SCLK
APD
DPD
L/R
FS3 1-54
DVP-12. 1-60
IC505 (1/4)
FS4 1-58
DVP-12. 1-64
FS1 1-71
DVP-12. 1-72
IC505 (3/4)
IC505 (4/4)
CLK LOSS DETECT
IC506 (1/2)
POWER ON RESET
IC506 (2/2)
IC505 (2/4)
FS2 1-69
DVP-12. 1-70
SW-940. 1-3
1-62 AB POWER
MIC POWER SUPPLY
T201, Q202-Q204, Q208, Q209
Q213, Q215, Q217, IC205 (1/2) BUFFER
TP202 MIC2 IN
IC206 (1/2) ELECTRIC VOLUME
IC205 (2/2) LEV ADJ
RV203 MIC2 LEV-ADJ
IC501 (1/2) FILTER
RV502 A/D. MIC2. LEV-ADJ
RV500 A/D. MIC1. DC ADJ
IC502 1/2
IC502 2/2
TP501 A/D MIC2 LEV-ADJ
N.C
SW-940. 1-2
1-37 MIC POWER
1-64 POWER OFF
MIC POWER SUPPLY CP201
SW-940. 1-1
1-61 PHA POWER
Q201
IC208
Q218 BUFFER
AUDIO LEVEL OUT 1-80
CAMERA (ANALOG), 1-59
IC202 (1/3)
CAMERA (ANALOG), 1-21
1-49 AUDIO CH1 CNT
BUFFER
IC201 (2/2)
+5V
R207
RV201 EARPHONE LVL-ADJ
IC201 AMP
IC203
EARPHONE (X) 1-63
EARPHONE. J101
S1 (2/2) MONI/MIC SELECT
SW-750. 603-2
1-68 MIC A VR (Y)
SW-784. 605-9
1-50 VF CCZ AUDIO SEL A
INVERTER
IC207
SW-750. 603-4
SW-750. 603-5
SW-750. 603-6
1-73 MIC B VR (X)
1-75 MIC B VR (Y)
1-77 MIC B VR (G)
R202
-5V
N.C
1-83 EXT DC IN
Q205
CAMERA (ANALOG), 1-63
1-24 VTR SAVE IN
BUFFER
VTR SAVE OUT/ AUDIO MONI IN 1-74
VTR. 107-20

VSE-30
CA-530


DC-93. 1-26
1-31 RCP-CONNECT
DC-93. 1-72
1-77 DC DIAG
VSE-30. 1-79
1-78 VSE DIAG
VSE-30. 1-54
1-60 FS3
IC8
AUDIO IC
AUDIO I1
RST
VCLK
HD
VD
AUX1
58-67
AUX2
69-78
IC5
I2C
IC1
I2C
ADDRESS
IC38 (1/4), Q3. D9
REGULATOR
+3. 3V
IC38 (2/4), Q4. D3
REGULATOR
+2. 5V
IC38 (3/4), Q6. D12
REGULATOR
+5. 0V
IC38 (4/4), Q5. D11
REGULATOR
-5. 0V
DC-93. 1-91
DC-93. 1-92
1-91
1-92
+3. 6V
DC-93. 1-90
DC-93. 1-89
1-90
1-89
+5. 5V
DC-93. 1-86
DC-93. 1-85
1-86
1-85
-5. 0V
IC28. Q2. D7
VOLTAGE DET
N. C
1-71 TDI
N. C
1-65 TCK
N. C
1-67 TRST
N. C
1-68 TMS
N. C
1-73 TDO
CLK2 (13. 5M)
AUX (AUDIO)
VMO
HAU
IC2 (3/4)
IC2 (2/4)
IC2 (1/4)
PULL (P/S). LST
IC29
PARALLEL TO SERIAL CONVERTER
Q7. 10
R129. 134
LINE DRIVER
GO
PCX
RV1
FREE RUN ADJ
PRST
CAMERA (DIGITAL), 1-6 TO 1-10/ 1-40 TO 1-44
1-13 TO 1-22 R-Y (L. 1-8. M) /IN
CAMERA (DIGITAL), 1-11 TO 1-15/ 1-45 TO 1-49
1-47 TO 1-56 B-Y (L. 1-8. M) /IN
CAMERA (DIGITAL), 1-1 TO 1-5/ 1-35 TO 1-39
1-37 TO 1-46 Y (L. 1-8. M) /IN
CAMERA (DIGITAL), 1-52
1-3 VD-IN
CAMERA (ANALOG), 1-31
1-5 HD-IN
CAMERA (DIGITAL), 1-68
1-27 18MHz (X) -IN
IC6. 9
LATCH
IC15
LATCH
IC19
IC19
IC21
VIDEO IC
63-69
71-73
RI
86-95
BI
74-77
80-85
GI
107
108
103
PLL
CLK (27M)
IC12
BUFFER
IC4
PHASE COMPARATOR
FILTER
IC3
AMP
C9. R16. 17
X1
VCXO
IC7 (4/6)
IC7
IC7 (1/6)
IC7 (2/6), IC7 (5/6), IC11. 13. 17
COUNTER
IC26
LEVEL
IC18
PLL
IC22
COUNTER
IC25
D/FF
FS1
FS2
FS4
TP1
FS2
1-72 FS1
VSE-30. 1-71
1-70 FS2
VSE-30. 1-69
1-64 FS4
VSE-30. 1-58
VBS/SDI SEL IND
Q1. Q11. Q13 Q14. Q17
BUFFER & SW
VBS/SDI SEL AUTO 1-30
VTR. 107-14
POWER SAVE CNT 1-26
MB760. 19-11 (SDI SW)
SCL 1-59
CAMERA (ANALOG). 1-33
SDA 1-61
CAMERA (ANALOG). 1-67
C137
Q8
BUTTER
R122
D14
CNT
Q12
BUFFER
IC40
LINE DRIVE
R156
75Ω
VBS/SDI OUT
CN2 (CCZ)
CCZ-SDI-BNC/OUT (X) 2-1
VTR. 107-1
Q9
BUFFER
VBS. VIDEO. IN 1-4
CAMERA (ANALOG). 1-45
C151
R147
SDI OUT
CN3 (BNC)
SDI-BNC/OUT (X) 3-1
CN105 SERIAL OUT
IC10
IC20
POWER ON RESET

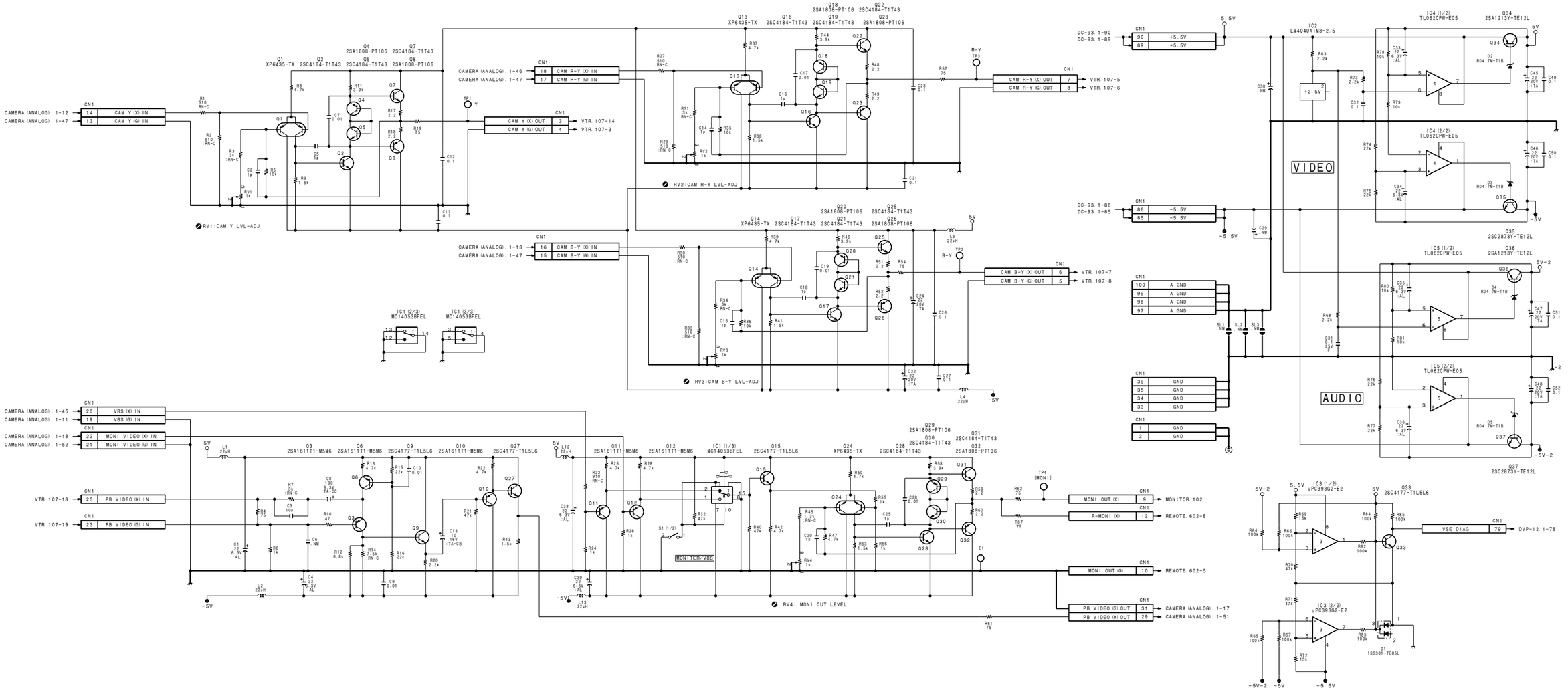
DVP-12
CA-530


DC IN. 103-4 or VTR. 107-A
1-81 TO 1-84
CAM (+12V) IN
L1
FILTER (LOW PASS)
Q1-Q3
+5.5V REGULATOR
L2. C14
FILTER (LOW PASS)
L3. C16
FILTER (LOW PASS)
+5.3V OUT
1-89 TO 1-90
VSE-30. 1-89/DVP-12. 1-89
VSE-30. 1-90/DVP-12. 1-90
IC1
REGULATOR CONTROL
Vcc
-5.5V REGULATOR
Q4-Q6
L5. C21
FILTER (LOW PASS)
-5.3V OUT
1-85 1-86
VSE-30. 1-85/DVP-12. 1-85
VSE-30. 1-86/DVP-12. 1-86
IC2
REGULATOR CONTROL
Vcc
Q7-Q10
+3.5V REGULATOR
L6. C33
FILTER (LOW PASS)
L7. C35
FILTER (LOW PASS)
+3.5V OUT
1-91 1-92
VSE-30. 1-91/DVP-12. 1-91
VSE-30. 1-92/DVP-12. 1-92
IC11
VOLTAGE DETECT
Q11
BUFFER
DC-DIAG
1-72
DVP-12. 1-77
IC3. Q13-Q15
LOW VOLTAGE DETECT
D13
RV1
BATTERY ALM SET
IC8. Q16
BUFFER
BACK TALLY (X)
1-22
LP-87. 606-1
VTR. 107-13
1-21
BATT IND IN
BATTELY ALARM OUT
1-19
CAMERA (ANALOG). 1-19
Q17
BUFFER
VTR. 107-15
1-15
REC ALARM IN
REC TALLY OUT
1-18
CAMERA (ANALOG). 1-62
IC5
PHOTO COUPLER
IC9
BUFFER
REMOTE. 602-3
1-10
R (X) -RCP-DATA
COM CONT OUT
1-14
CAMERA (ANALOG). 1-32
IC6
PHOTO COUPLER
IC7
DATA DETECT
IC10
INVERTER
REMOTE. 602-4
1-8
R (Y) -RCP-DATA
RCP-CONNECT
1-26
DVP-12. 1-31
IC4
DRIVER
CAMERA (ANALOG). 1-66
1-13
COM DATA IN
T (X) -RCP-DATA
1-9
REMOTE. 602-1
T (Y) -RCP-DATA
1-7
REMOTE. 602-2

DC-93
CA-530

Section 7
Schematic Diagrams

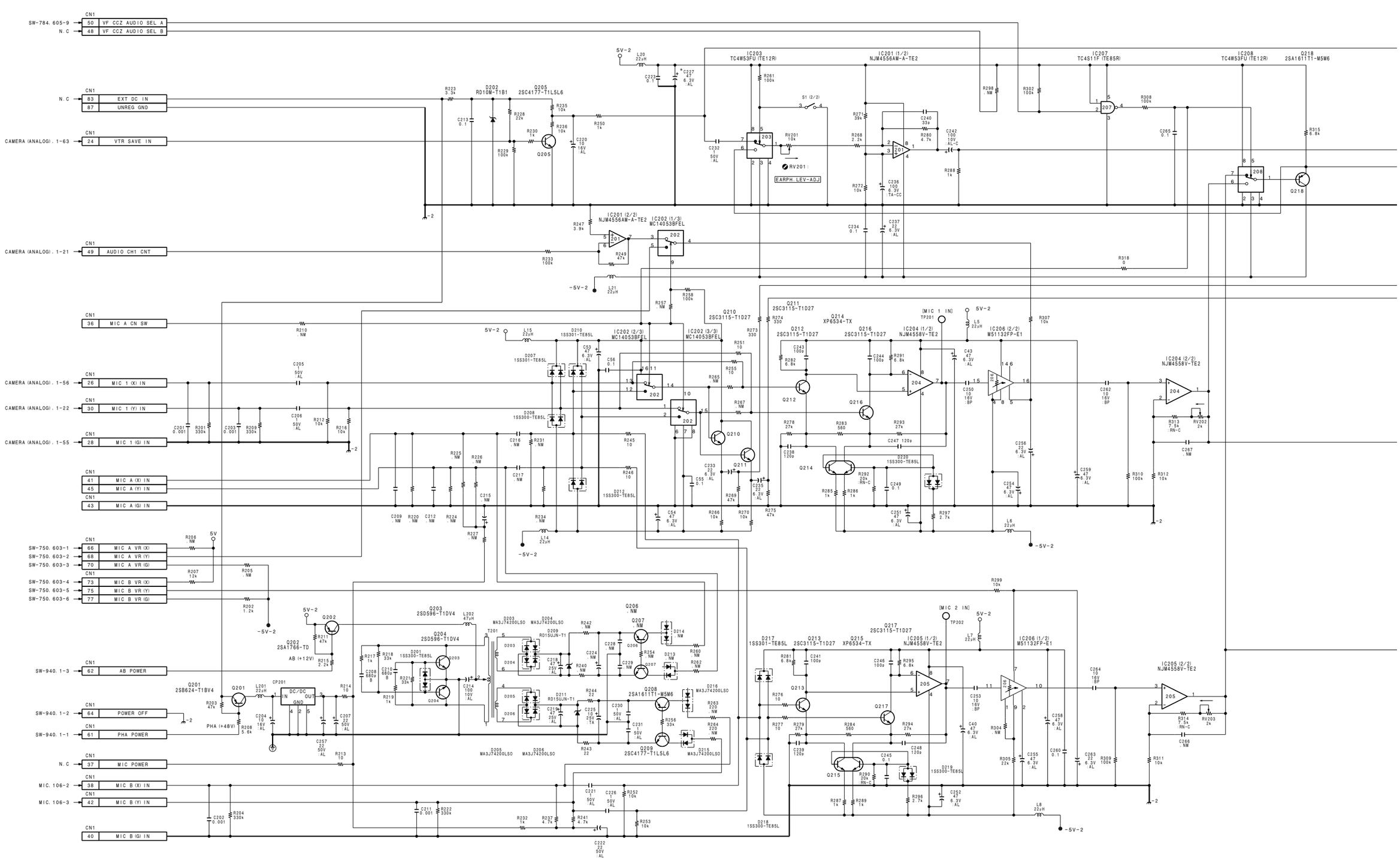
CA-530 (SY) : S/N 15001 and Higher
CA-530 (J) : S/N 35001 and Higher



VSE-30 (1/2)
BOARD NO. 1-667-013-12
LOT NO. 709-
B-¥CA530-VSE30-12@

VSE-30 (2/2)

CA-530 (SY) : S/N 15001 and Higher
CA-530 (J) : S/N 35001 and Higher

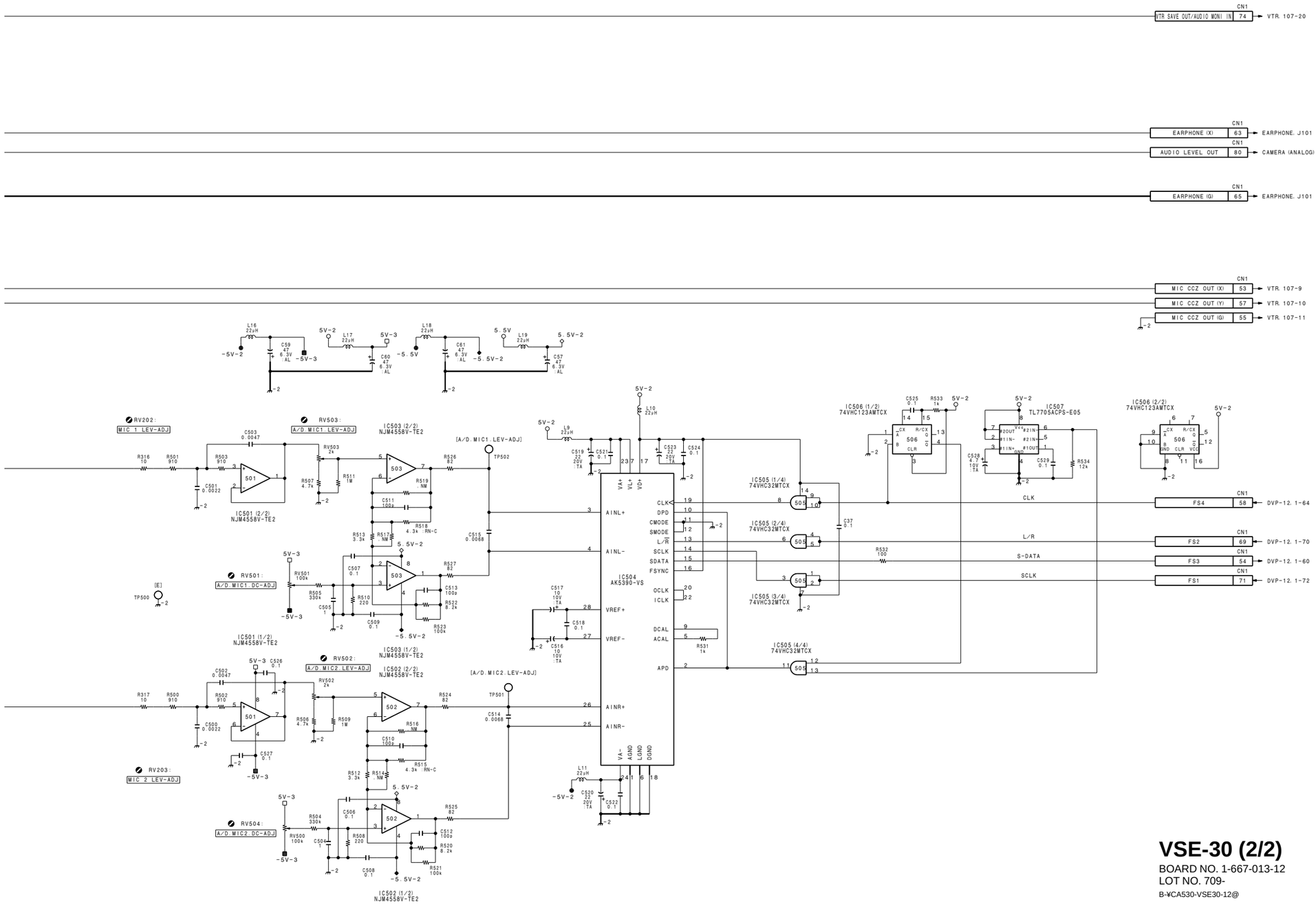


7-2 (a) 7-2 (a)

CA-530

A B C D E F G H

http://getMANUAL.com

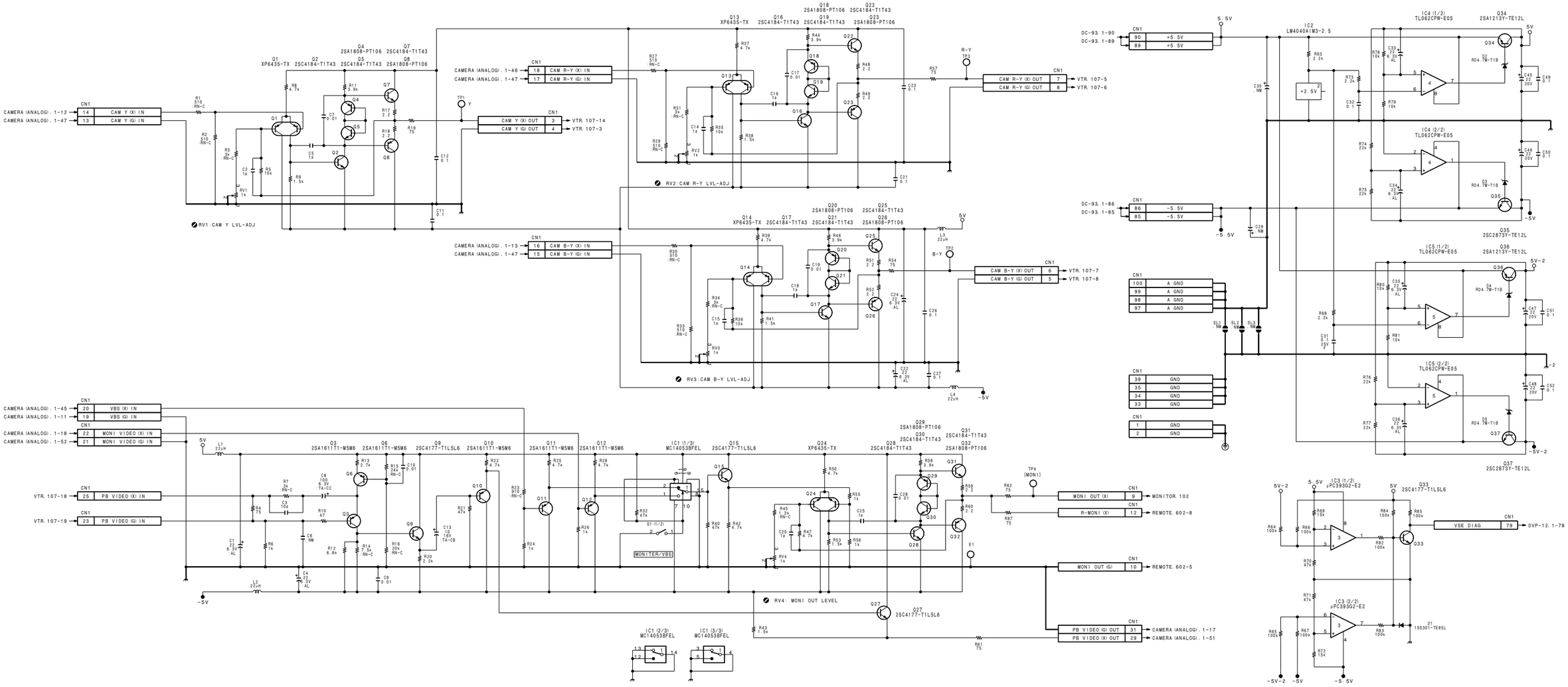


VSE-30 (2/2)

BOARD NO. 1-667-013-12
LOT NO. 709-

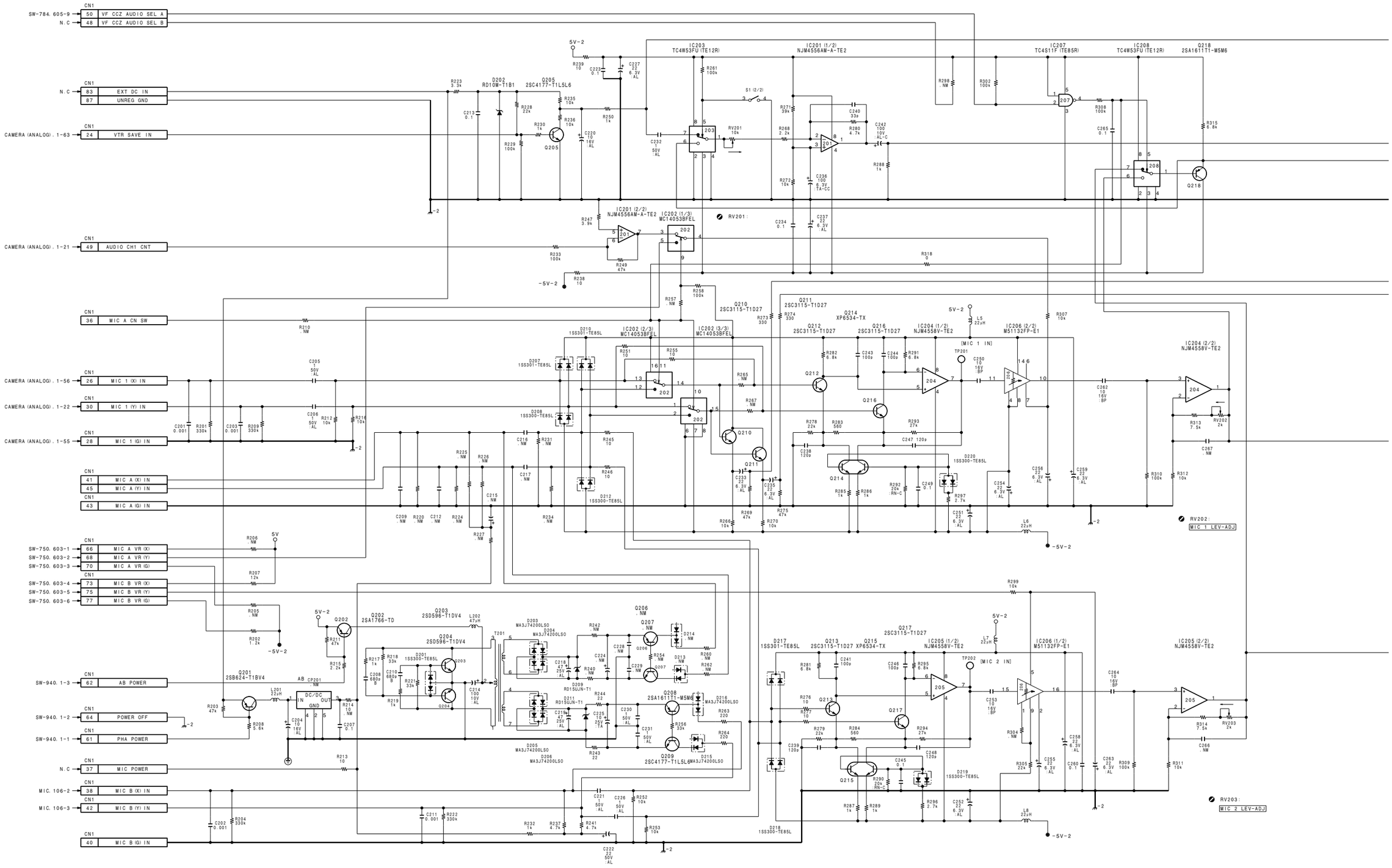
B-¥CA530-VSE30-12@

CA-530 (SY) : S/N 10001 through 15000
CA-530 (J) : S/N 30001 through 35000

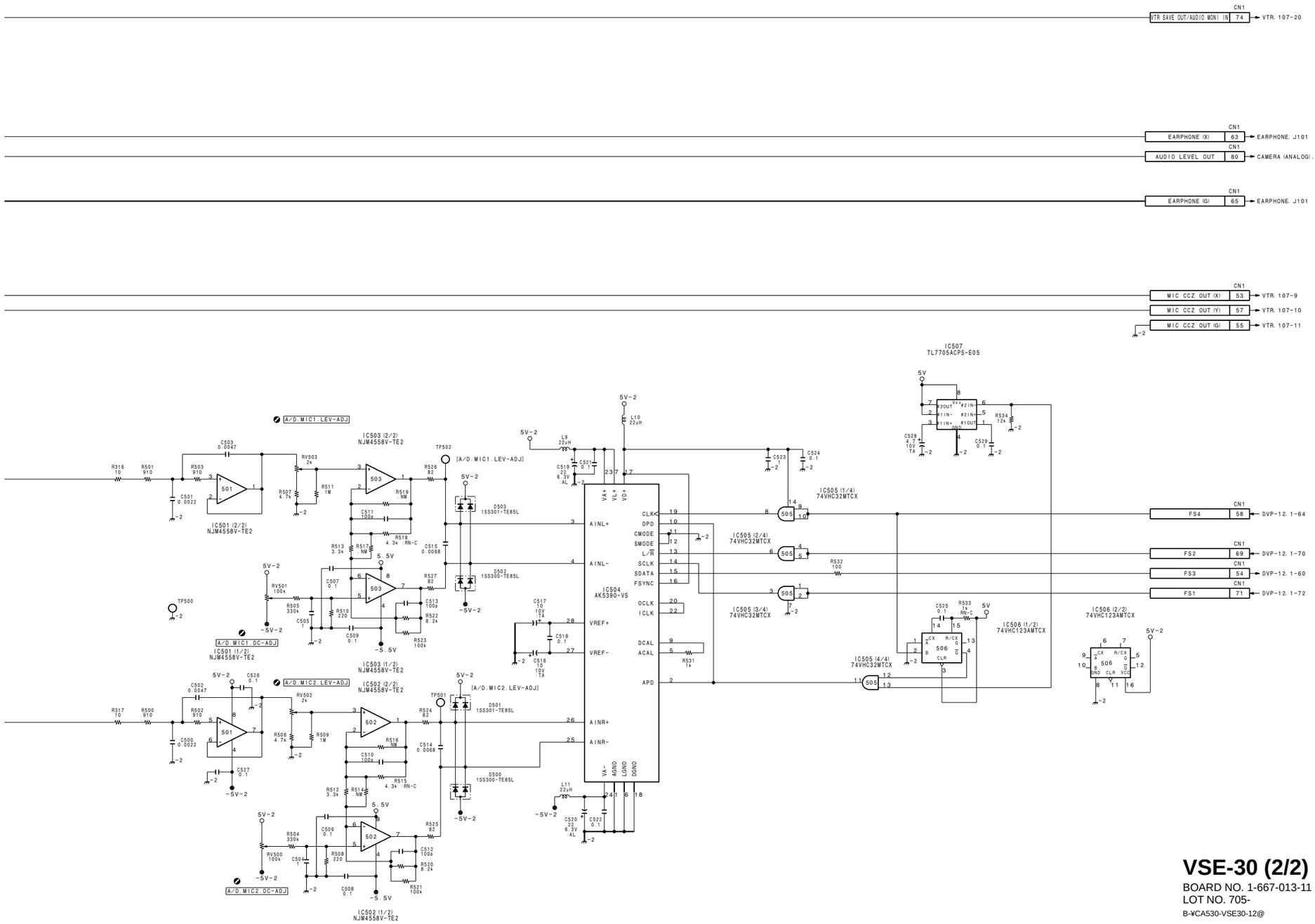


VSE-30 (1/2)
BOARD NO. 1-667-013-11
LOT NO. 705-
B-¥CA530-VSE30-12@

CA-530 (SY) : S/N 10001 through 15000
CA-530 (J) : S/N 30001 through 35000



VSE-30 (2/2)

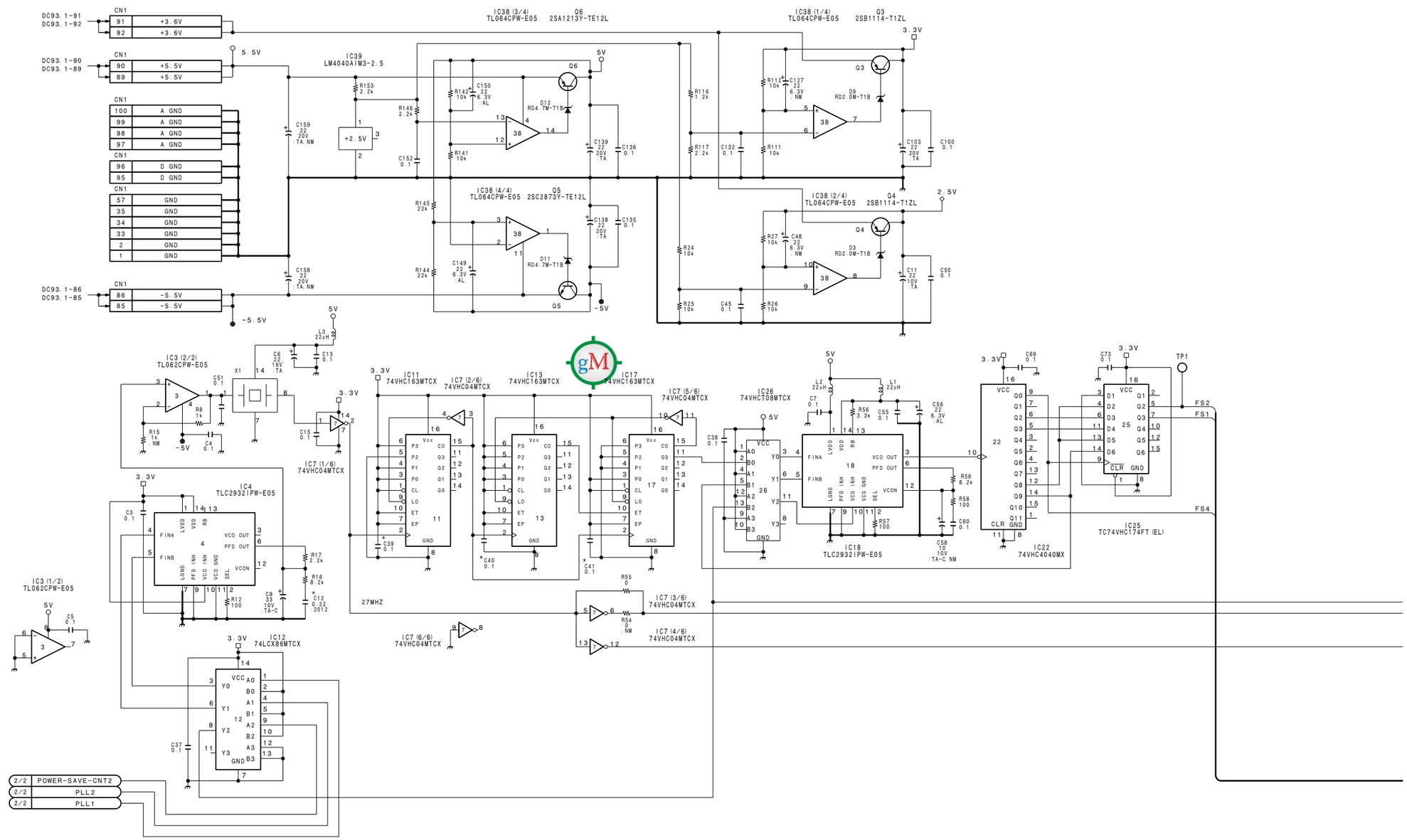


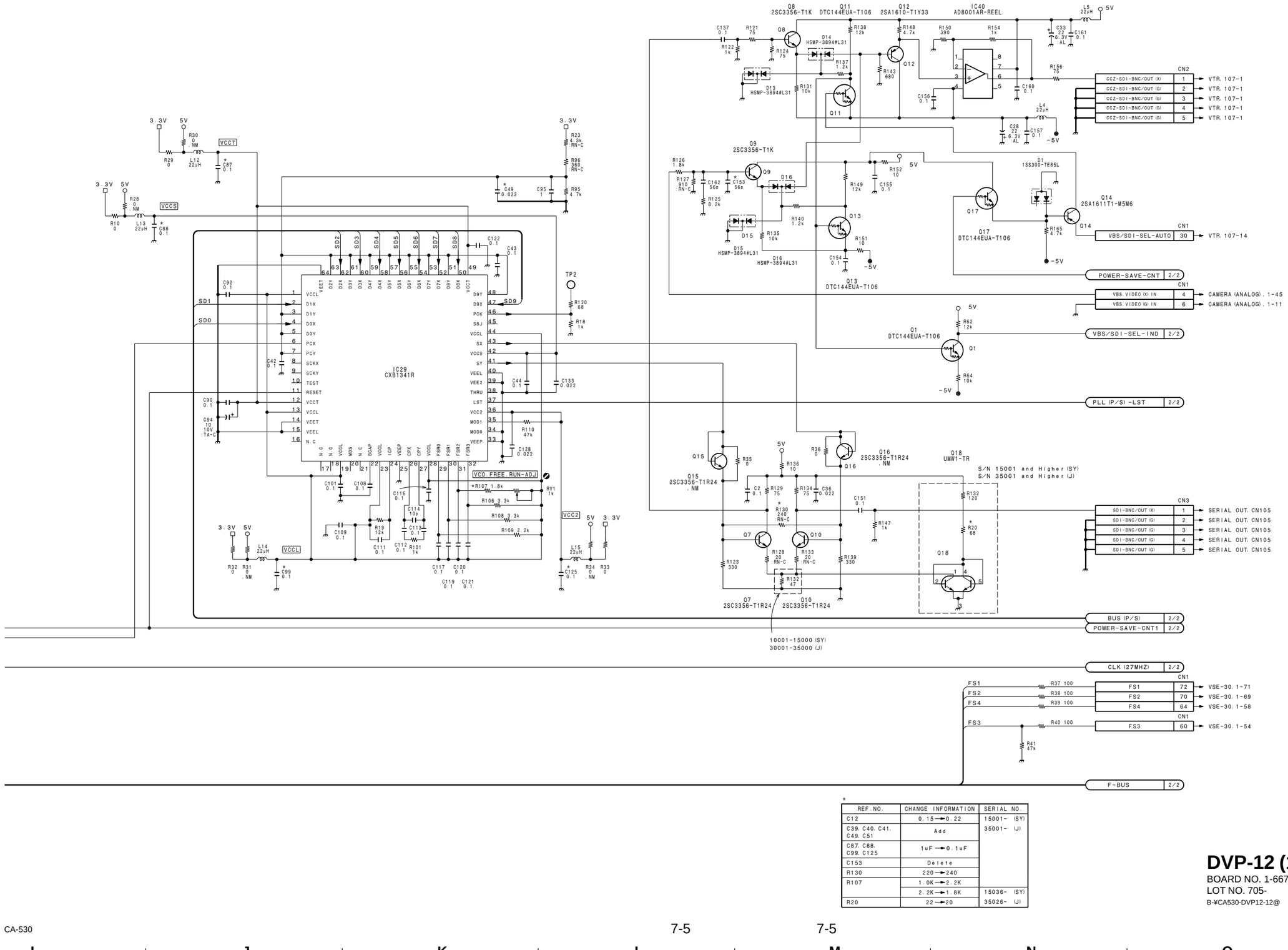
VSE-30 (2/2)

BOARD NO. 1-667-013-11
LOT NO. 705-

B-¥CA530-VSE30-12@

CA-530 (SY)
CA-530 (J)



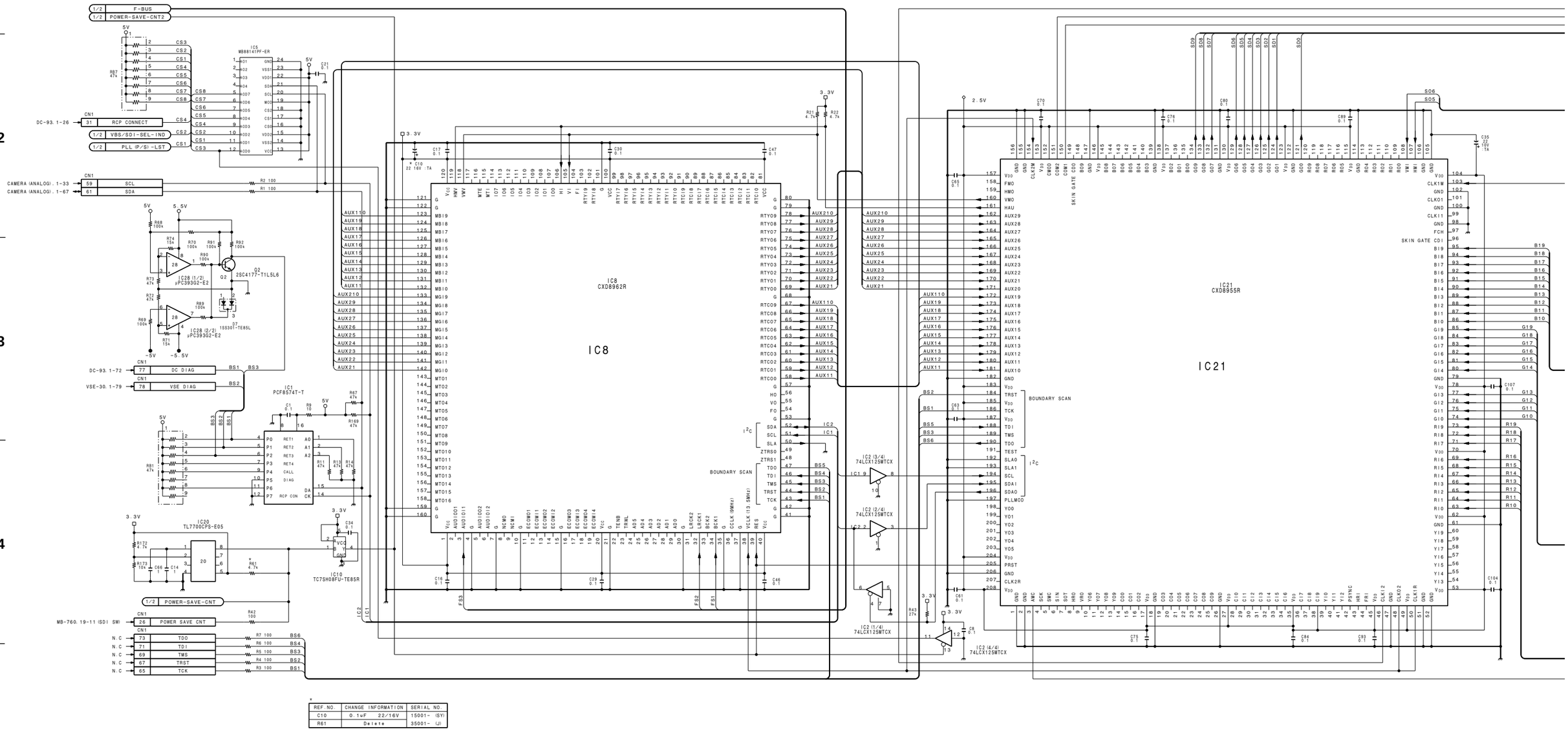


*

REF.NO.	CHANGE INFORMATION	SERIAL NO.
C12	0.15→0.22	15001- (SY)
C39. C40. C41. C49. C51	Add	35001- (J)
C87. C88. C99. C125	1uF→0.1uF	
C153	Delete	
R130	220→240	
R107	1.0K→2.2K	
	2.2K→1.8K	15036- (SY)
R20	22→20	35026- (J)

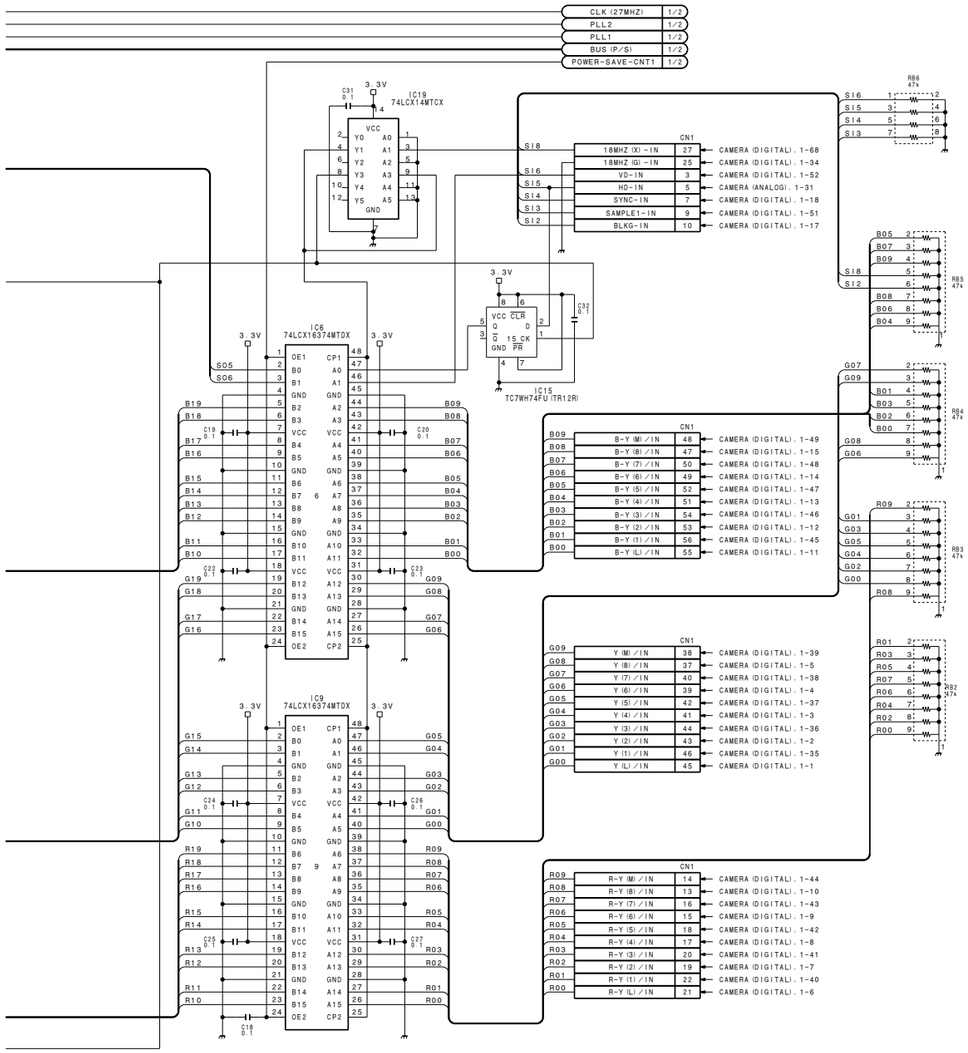
DVP-12 (1/2)
BOARD NO. 1-667-014-11, 12
LOT NO. 705-
B-¥CA530-DVP12-12@

CA-530 (SY)
CA-530 (J)



*

REF. NO.	CHANGE INFORMATION	SERIAL NO.
C10	0.1uF 22/16V	15001- (SY)
R61	Delete	35001- (J)

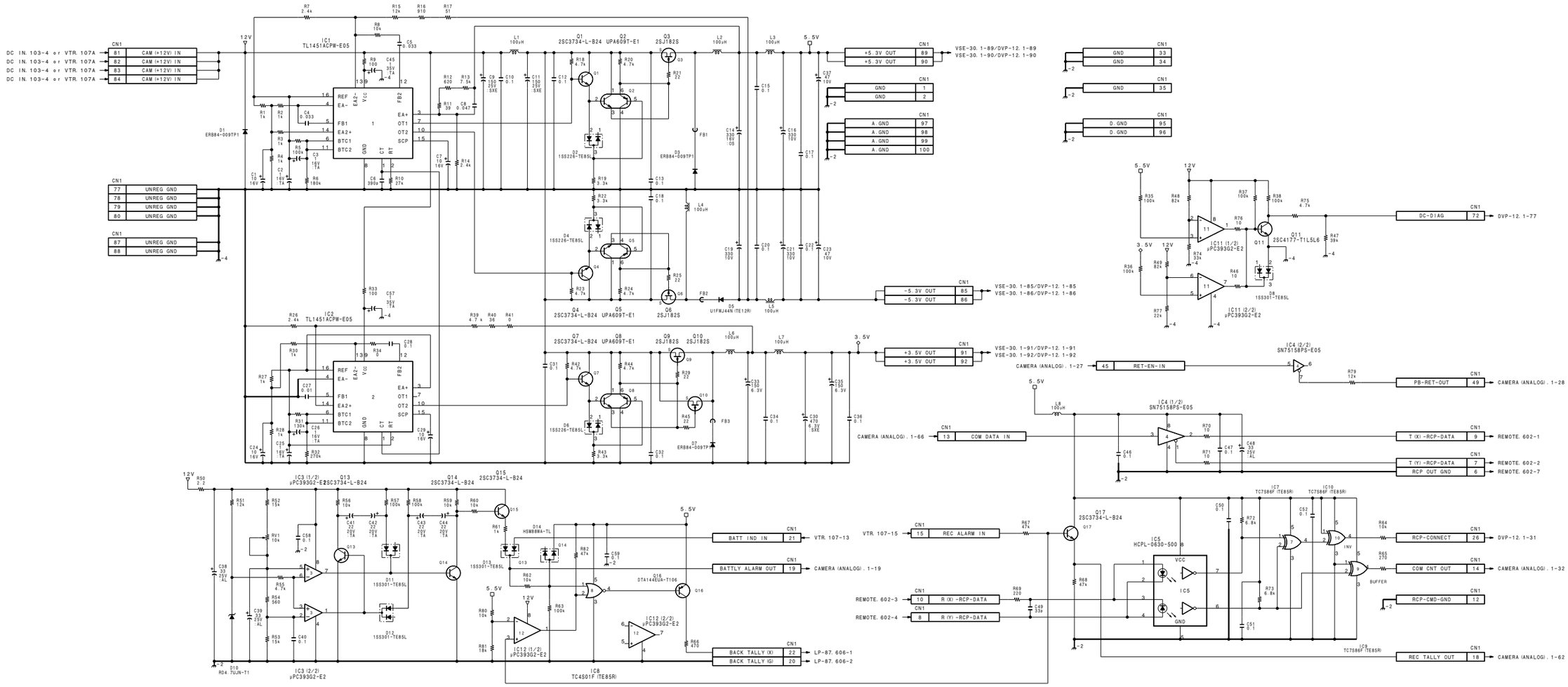

CLK (27MHZ) 1/2
PLL2 1/2
PLL1 1/2
BUS (P/S) 1/2
POWER-SAVE-CNT1 1/2
IC19 74LCX14MTCX
IC6 74LCX16374MTDX
IC9 74LCX16374MTDX
IC15 TC7WH74FU(TR12R)
CN1
18MHZ (X) -IN 27 CAMERA (DIGITAL), 1-68
18MHZ (G) -IN 25 CAMERA (DIGITAL), 1-34
VD-IN 3 CAMERA (DIGITAL), 1-52
HD-IN 5 CAMERA (ANALOG), 1-31
SYNC-IN 7 CAMERA (DIGITAL), 1-18
SAMPLE1-IN 9 CAMERA (DIGITAL), 1-51
BLKG-IN 10 CAMERA (DIGITAL), 1-17
B-Y (M) /IN 48 CAMERA (DIGITAL), 1-49
B-Y (8) /IN 47 CAMERA (DIGITAL), 1-15
B-Y (7) /IN 50 CAMERA (DIGITAL), 1-48
B-Y (6) /IN 49 CAMERA (DIGITAL), 1-14
B-Y (5) /IN 52 CAMERA (DIGITAL), 1-47
B-Y (4) /IN 51 CAMERA (DIGITAL), 1-13
B-Y (3) /IN 54 CAMERA (DIGITAL), 1-46
B-Y (2) /IN 53 CAMERA (DIGITAL), 1-12
B-Y (1) /IN 56 CAMERA (DIGITAL), 1-45
B-Y (L) /IN 55 CAMERA (DIGITAL), 1-11
Y (M) /IN 38 CAMERA (DIGITAL), 1-39
Y (8) /IN 37 CAMERA (DIGITAL), 1-5
Y (7) /IN 40 CAMERA (DIGITAL), 1-38
Y (6) /IN 39 CAMERA (DIGITAL), 1-4
Y (5) /IN 42 CAMERA (DIGITAL), 1-37
Y (4) /IN 41 CAMERA (DIGITAL), 1-3
Y (3) /IN 44 CAMERA (DIGITAL), 1-36
Y (2) /IN 43 CAMERA (DIGITAL), 1-2
Y (1) /IN 46 CAMERA (DIGITAL), 1-35
Y (L) /IN 45 CAMERA (DIGITAL), 1-1
R-Y (M) /IN 14 CAMERA (DIGITAL), 1-44
R-Y (8) /IN 13 CAMERA (DIGITAL), 1-10
R-Y (7) /IN 16 CAMERA (DIGITAL), 1-43
R-Y (6) /IN 15 CAMERA (DIGITAL), 1-9
R-Y (5) /IN 18 CAMERA (DIGITAL), 1-42
R-Y (4) /IN 17 CAMERA (DIGITAL), 1-8
R-Y (3) /IN 20 CAMERA (DIGITAL), 1-41
R-Y (2) /IN 19 CAMERA (DIGITAL), 1-7
R-Y (1) /IN 22 CAMERA (DIGITAL), 1-40
R-Y (L) /IN 21 CAMERA (DIGITAL), 1-6
R86 47k
R85 47k
R84 47k
R83 47k
R82 47k

DVP-12 (2/2)

BOARD NO. 1-667-014-11, 12
LOT NO. 705-
B-¥CA530-DVP12-12@

http://getMANUAL.com

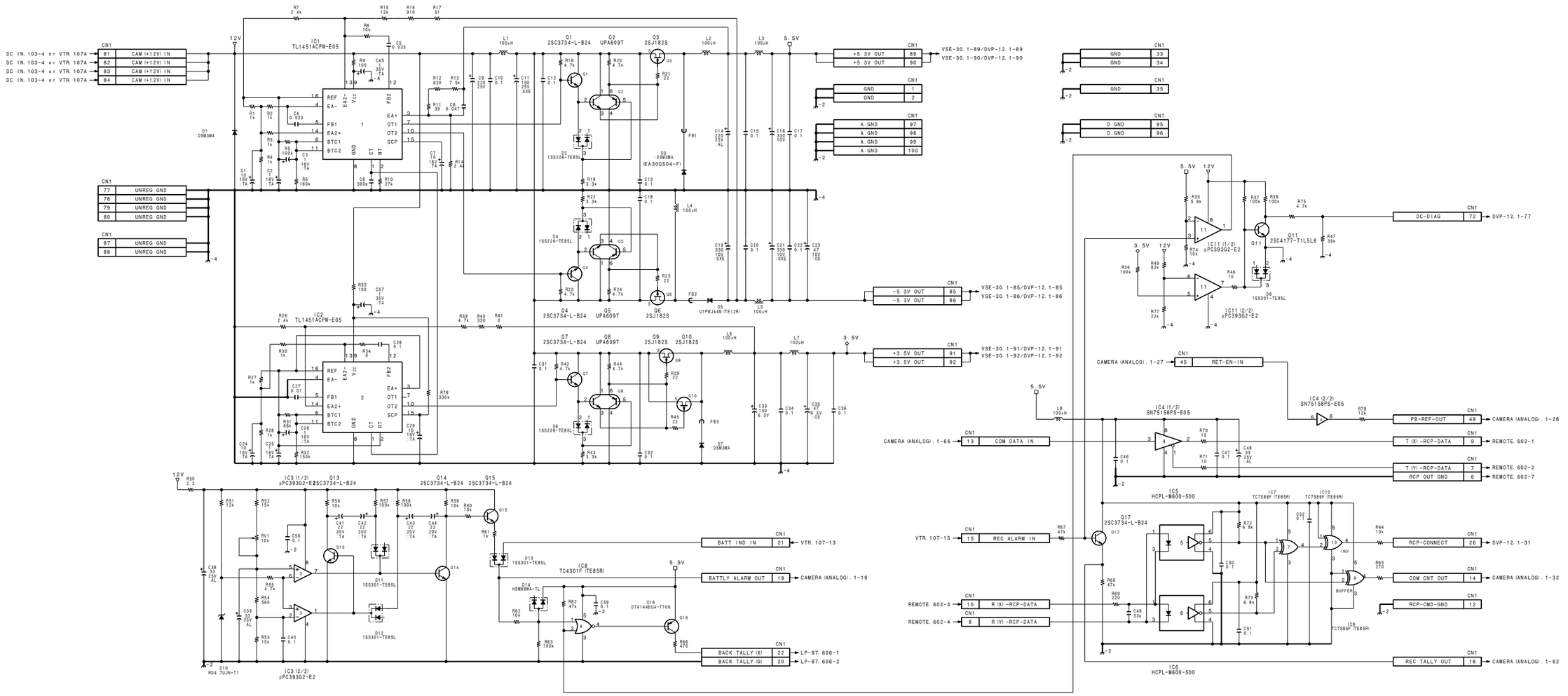
CA-530 (SY) : S/N 15001 and Higher
CA-530 (J) : S/N 35001 and Higher



DC-93

BOARD NO. 1-667-015-12
LOT NO. 709-
B-¥CA530-DC93-12@

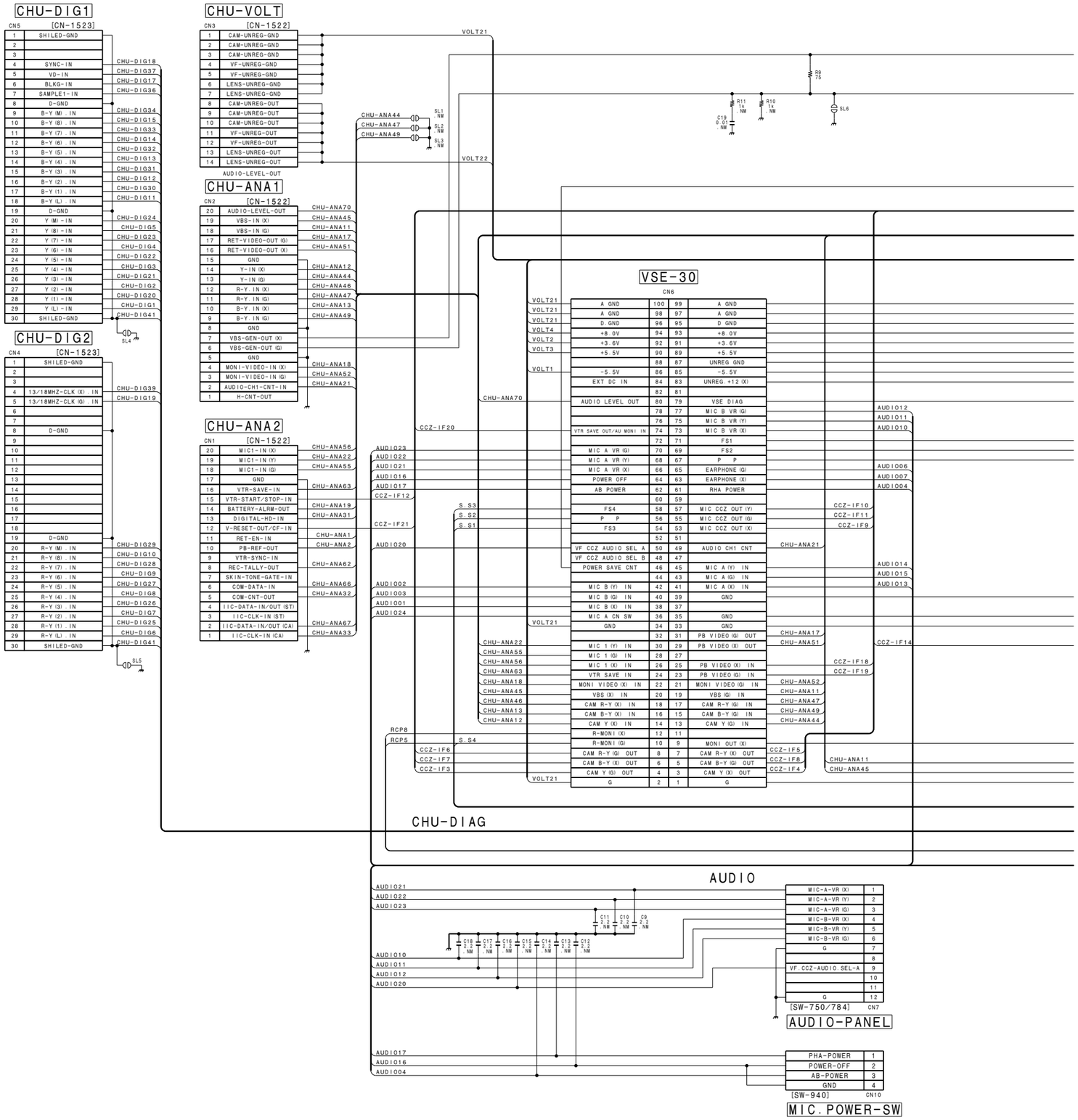
CA-530 (SY) : S/N 10001 through 15000
CA-530 (J) : S/N 30001 through 35000

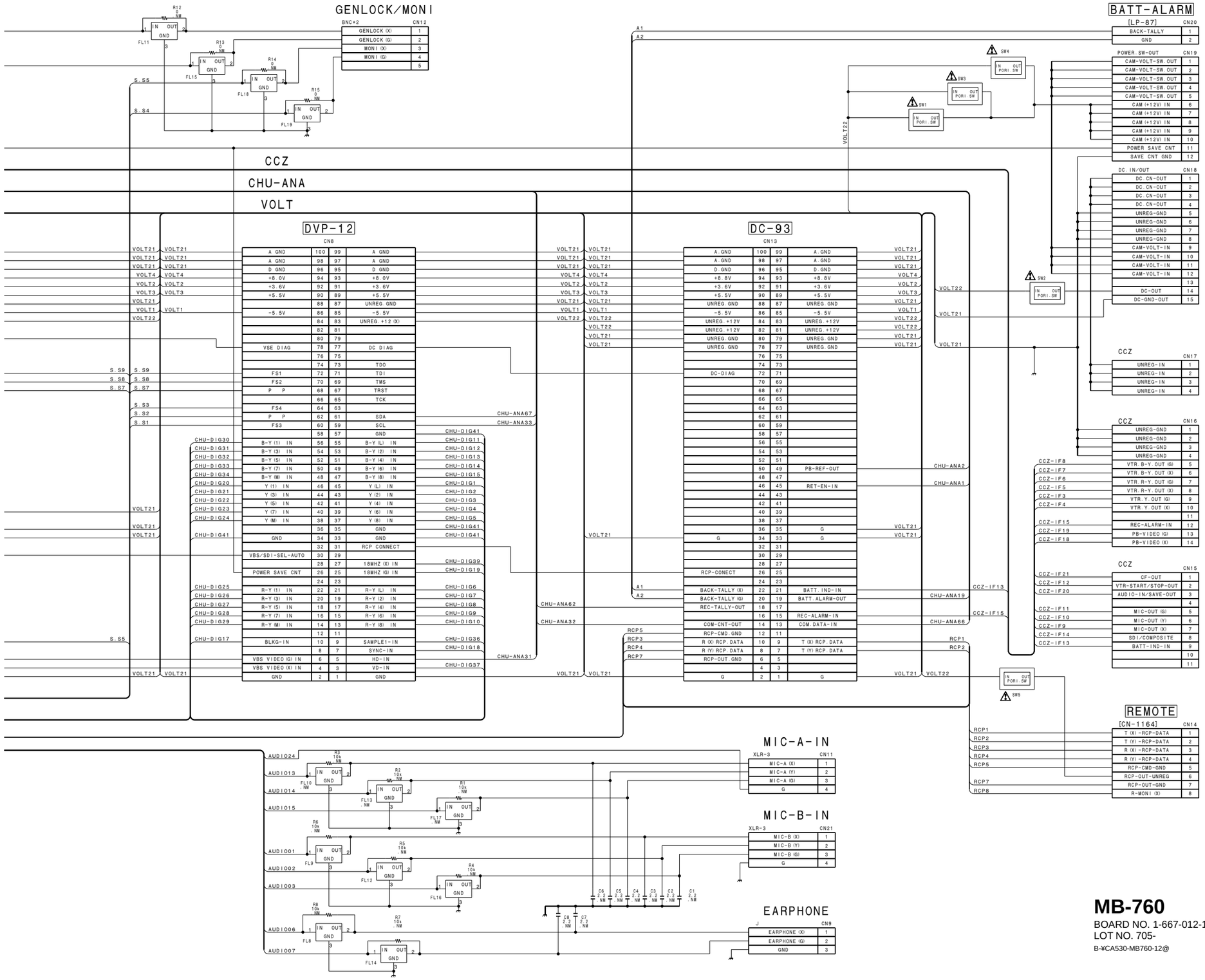


DC-93

BOARD NO. 1-667-015-11
LOT NO. 705-
B-¥CA530-DC93-12@

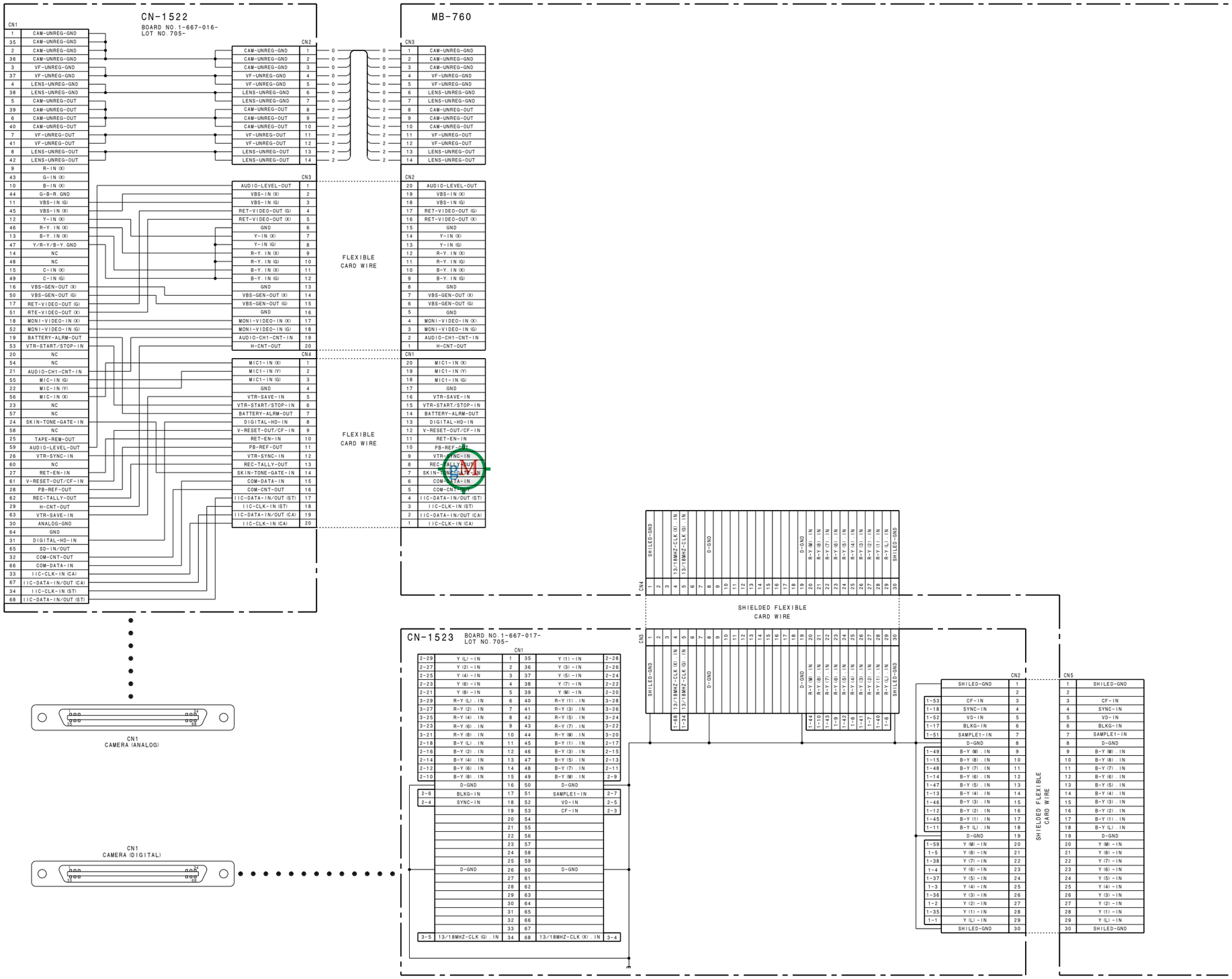
CA-530 (SY)
CA-530 (J)

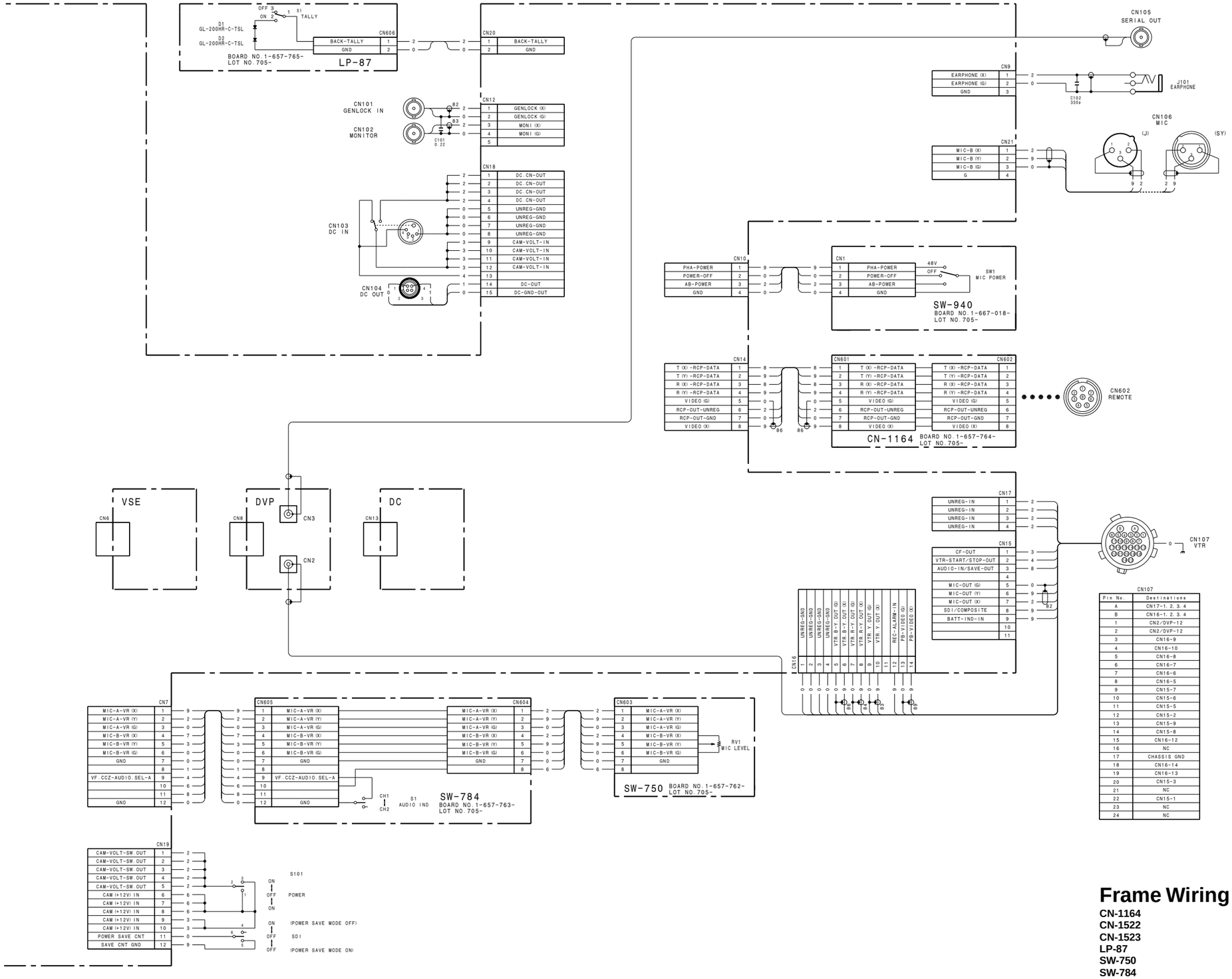




MB-760
BOARD NO. 1-667-012-11, 12
LOT NO. 705-
B-¥CA530-MB760-12@

CA-530 (SY)
CA-530 (J)





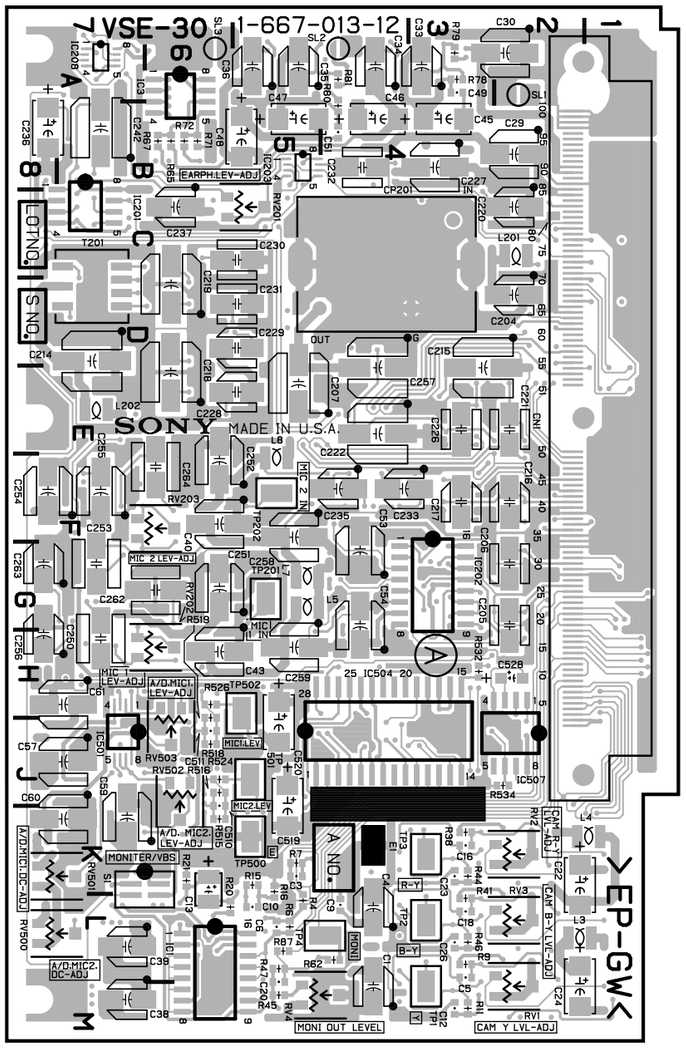
Frame Wiring

CN-1164
CN-1522
CN-1523
LP-87
SW-750
SW-784
SW-940

Section 8
Board Layouts

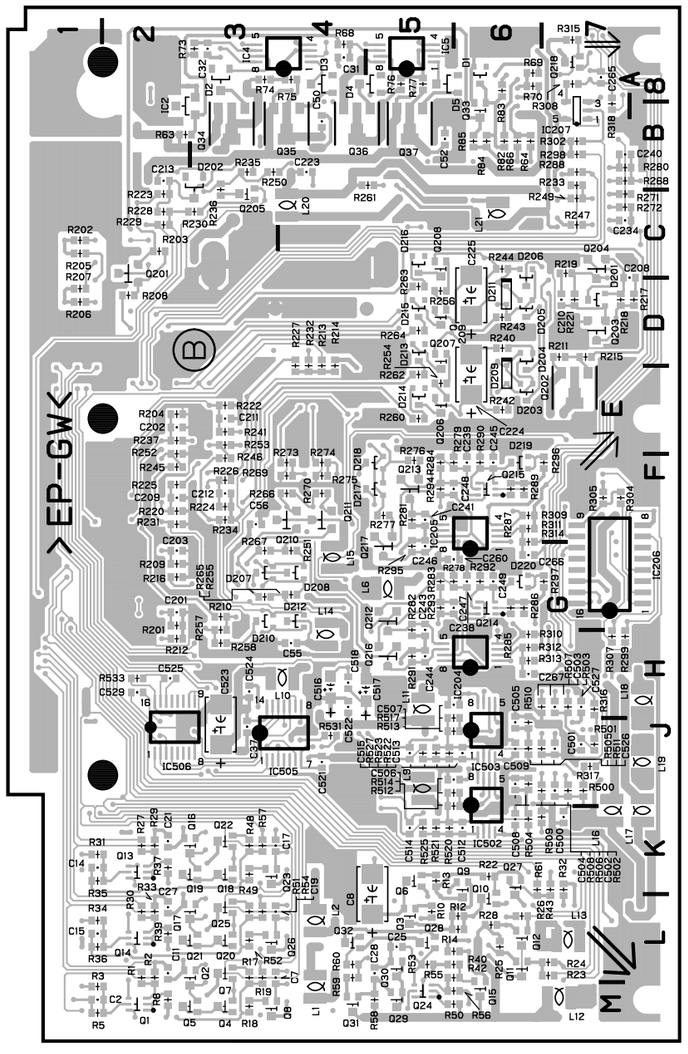
VSE-30 (1-667-013-12)

C1	M4	C236	B8	E1	K4
C2	*M1	C237	C6		
C3	K5	C238	*G6	IC1	L6
C4	L4	C239	*F6	IC2	*B2
C5	L3	C240	*B7	IC3	A6
C6	L5	C241	*F5	IC4	*A4
C7	*L3	C242	B7	IC5	*A5
C8	*K5	C243	*G5	IC201	B7
C9	L4	C244	*H5	IC202	G4
C10	L5	C245	*F6	IC203	B5
C11	*L2	C246	*G5	IC204	*H6
C12	M3	C247	*G5	IC205	*F6
C13	K6	C248	*F5	IC206	*G8
C14	*K1	C249	*G6	IC207	*B7
C15	*L1	C250	H7	IC208	A7
C16	K3	C251	G6	IC501	H7
C17	*K3	C252	F6	IC502	*K6
C18	L3	C253	G7	IC503	*J6
C19	*L3	C254	F8	IC504	J5
C20	L5	C255	F7	IC505	*J3
C21	*K2	C256	H8	IC506	*J2
C22	K2	C257	E4	IC507	H2
C23	K3	C258	F5		
C24	M2	C259	H5	L1	*M4
C25	*L5	C260	*G5	L2	*L4
C26	L3	C262	G6	L3	L2
C27	*L2	C263	G8	L4	K1
C28	*L5	C264	F6	L5	G5
C29	B2	C265	*A7	L6	*G5
C30	A2	C266	*G6	L7	G5
C31	*A4	C267	*H6	L8	F5
C32	*A3	C500	*K7	L9	*J5
C33	A3	C501	*J7	L10	*H4
C34	A4	C502	*J7	L11	*H5
C35	A5	C503	*H7	L12	*M7
C36	A5	C504	*J6	L13	*L7
C37	*J3	C505	*J6	L14	*H4
C38	M7	C506	*J5	L15	*G4
C39	L7	C507	*H5	L16	*K7
C40	F6	C508	*K6	L17	*K8
C43	H6	C509	*J6	L18	*H8
C45	B3	C510	J6	L19	*J8
C46	B4	C511	J6	L20	*C4
C47	B5	C512	*K6	L21	*C6
C48	B5	C513	*J6	L201	C2
C49	A3	C514	*K5	L202	E7
C50	*B4	C515	*J5		
C51	B4	C516	*H4	Q1	*M2
C52	*B5	C517	*H4	Q2	*L2
C53	G4	C518	*H4	Q3	*L5
C54	G4	C519	J5	Q4	*M3
C55	*H4	C520	J5	Q5	*M2
C56	*F3	C521	*J4	Q6	*K5
C57	J7	C522	*H4	Q7	*L3
C59	K7	C523	*J3	Q8	*M3
C60	K7	C524	*H3	Q9	*K6
C61	H7	C525	*H2	Q10	*L6
C201	*G2	C526	*J7	Q11	*L6
C202	*E2	C527	*H7	Q12	*L6
C203	*G2	C528	H2	Q13	*K2
C204	D2	C529	*H2	Q14	*L2
C205	G2			Q15	*M6
C206	G2	CN1	E1	Q16	*K2
C207	E5			Q17	*L2
C208	*C7	CP201	C4	Q18	*K3
C209	*F2			Q19	*K2
C210	*D7	D1	*A6	Q20	*L3
C211	*E3	D2	*A3	Q21	*L2
C212	*F3	D3	*A4	Q22	*K3
C213	*B2	D4	*A5	Q23	*K3
C214	D7	D5	*A5	Q24	*M5
C215	E3	D201	*D7	Q25	*L3
C216	F2	D202	*B3	Q26	*L3
C217	F3	D203	*E6	Q27	*K6
C218	E6	D204	*D6	Q28	*L5
C219	D6	D205	*D6	Q29	*M5
C220	C2	D206	*C6	Q30	*L5
C221	E2	D207	*G3	Q31	*M4
C222	E4	D208	*G4	Q32	*L4
C223	*B4	D209	*E6	Q33	*B6
C224	*E6	D210	*G3	Q34	*B3
C225	*D6	D211	*D6	Q35	*B4
C226	E3	D212	*G4	Q36	*B4
C227	B3	D213	*D5	Q37	*B5
C228	E5	D214	*E5	Q201	*C2
C229	D5	D215	*D5	Q202	*E7
C230	C5	D216	*C5	Q203	*D7
C231	D5	D217	*F5	Q204	*C7
C232	B4	D218	*F5	Q205	*C3
C233	F4	D219	*F6	Q206	*E5
C234	*C7	D220	*G6	Q207	*D5
C235	F4			Q208	*C5



CA-530 (SY) : S/N 15001 and Higher
CA-530 (J) : S/N 35001 and Higher

VSE-30 -A SIDE-
1-667-013-12

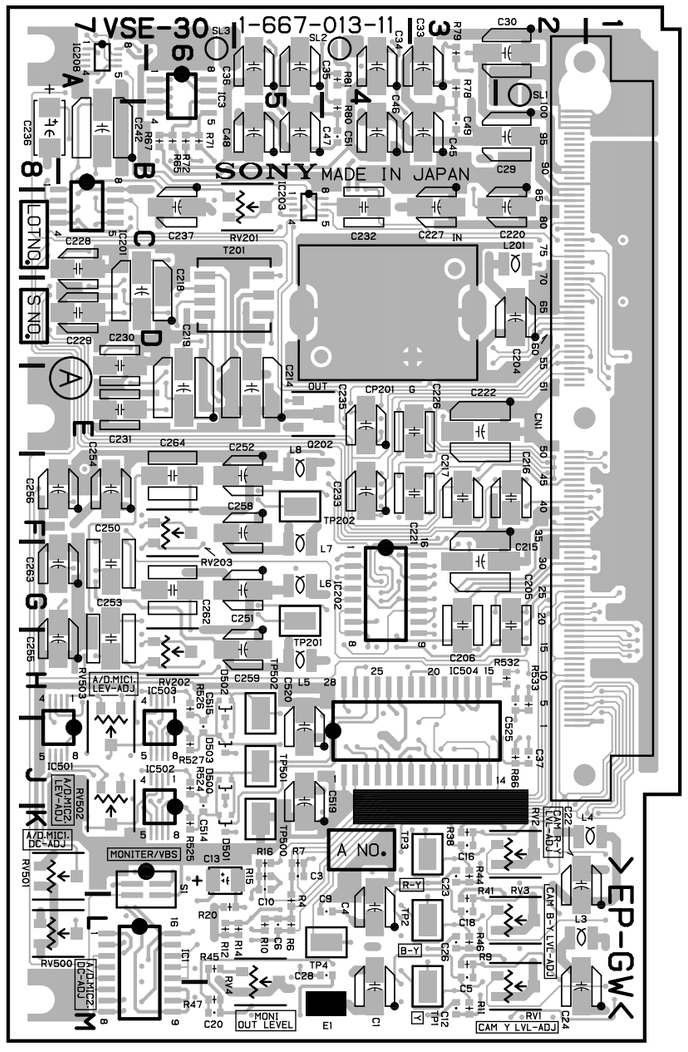


VSE-30 -B SIDE-
1-667-013-12

Q209	*D5	R82	*B6	R292	*G6
Q210	*F4	R83	*A6	R293	*G5
Q211	*F4	R84	*B6	R294	*F5
Q212	*G5	R85	*B6	R295	*G5
Q213	*F5	R87	L5	R296	*F7
Q214	*G6	R201	*G2	R297	*G7
Q215	*F6	R202	*C1	R298	*B7
Q216	*H5	R203	*C2	R299	*H7
Q217	*G5	R204	*E2	R302	*B7
Q218	*A7	R205	*C1	R304	*F7
		R206	*D1	R305	*F7
R1	*L2	R207	*D1	R307	*H7
R2	*L2	R208	*D2	R308	*A7
R3	*M1	R209	*G2	R309	*F6
R4	L5	R210	*G3	R310	*H6
R5	*M1	R211	*D7	R311	*F6
R6	L5	R212	*H2	R312	*H6
R7	K5	R213	*D4	R313	*H6
R8	*M2	R214	*D4	R314	*F6
R9	L3	R215	*D7	R315	*A7
R10	*L5	R216	*G2	R316	*H7
R11	M3	R217	*D8	R317	*J7
R12	*L6	R218	*D7	R318	*B7
R13	*K5	R219	*C7	R500	*J7
R14	*L6	R220	*F2	R501	*J7
R15	K5	R221	*D7	R502	*J7
R16	K5	R222	*E3	R503	*H7
R17	*L3	R223	*C2	R504	*K6
R18	*M3	R224	*F3	R505	*J6
R19	*L3	R225	*F2	R506	*J6
R20	L6	R226	*F3	R507	*H6
R21	K6	R227	*D4	R508	*J6
R22	*K6	R228	*C2	R509	*K6
R23	*L7	R229	*C2	R510	*J6
R24	*L7	R230	*C3	R511	*J6
R25	*L6	R231	*F2	R512	*J5
R26	*L6	R232	*D4	R513	*J5
R27	*K2	R233	*B7	R514	*J5
R28	*L6	R234	*F3	R515	K6
R29	*K2	R235	*B3	R516	J6
R30	*L2	R236	*B3	R517	*H5
R31	*K1	R237	*E2	R518	J6
R32	*K7	R240	*D6	R519	H6
R33	*L2	R241	*E3	R520	*K5
R34	*L1	R242	*E6	R521	*K5
R35	*K1	R243	*D6	R522	*J5
R36	*L1	R244	*C6	R523	*J5
R37	*K2	R245	*F2	R524	J6
R38	K3	R246	*F3	R525	*K5
R39	*L2	R247	*C7	R526	H6
R40	*L5	R249	*C7	R527	*J5
R41	L3	R250	*B3	R531	*J4
R42	*L5	R251	*G4	R532	H3
R43	*K7	R252	*E2	R533	*H2
R44	K3	R253	*E3	R534	J2
R45	M5	R254	*E5		
R46	L3	R255	*G4	RV1	M2
R47	L5	R256	*D5	RV2	K2
R48	*K3	R257	*G3	RV3	L2
R49	*K3	R258	*H3	RV4	M4
R50	*M5	R260	*E5	RV201	C5
R51	*L3	R261	*B5	RV202	H6
R52	*L3	R262	*E5	RV203	F6
R53	*L5	R263	*D5	RV500	L7
R54	*L3	R264	*D5	RV501	K7
R55	*L5	R265	*G3	RV502	J6
R56	*M5	R266	*F4	RV503	J6
R57	*K3	R267	*G3		
R58	*M5	R268	*B7	S1	K6
R59	*L4	R269	*F4		
R60	*L4	R270	*F4	SL1	A2
R61	*K6	R271	*C7	SL2	A4
R62	L4	R272	*C7	SL3	A6
R63	*B2	R273	*F4		
R64	*B6	R274	*F4	T201	D7
R65	B6	R275	*F4		
R66	*B6	R276	*F5	TP1	M3
R67	B6	R277	*F5	TP2	L3
R68	*A4	R278	*G5	TP3	K3
R69	*A6	R279	*F5	TP4	L4
R70	*A6	R280	*B7	TP201	G5
R71	B6	R281	*F5	TP202	F5
R72	B6	R282	*G5	TP500	K5
R73	*A3	R283	*G5	TP501	J5
R74	*A3	R284	*F5	TP502	H5
R75	*A4	R285	*G6		
R76	*A5	R286	*G6	*:B SIDE	
R77	*A5	R287	*F6		
R78	A3	R288	*B7		
R79	A3	R289	*F6		
R80	B4	R290	*F6		
R81	A4	R291	*H5		

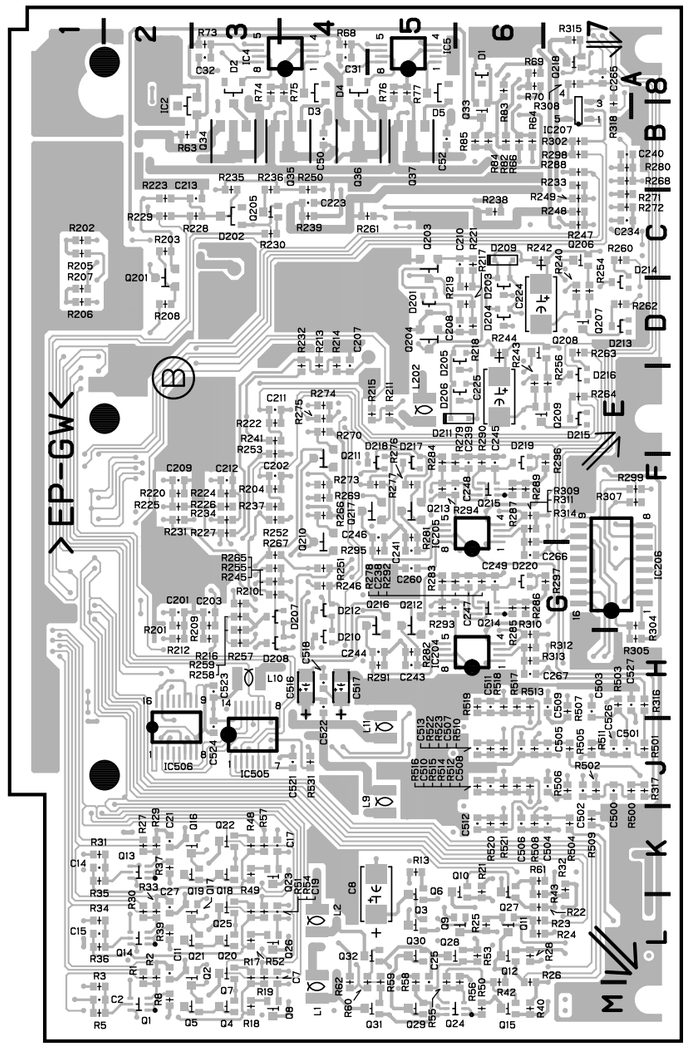
VSE-30 (1-667-013-11)

C1	M4	C248	*F5	IC205	*F6	R12	L6	R218	*D6	R314	*F6
C2	*M1	C249	*G6	IC206	*G8	R13	*K5	R219	*D6	R315	*A7
C3	K5	C250	G7	IC207	*B7	R14	L5	R220	*F2	R316	*H8
C4	L4	C251	G5	IC208	A7	R15	K5	R221	*C6	R317	*J8
C5	L3	C252	F5	IC501	H7	R16	K5	R222	*E3	R318	*B7
C6	L5	C253	H7	IC502	J6	R17	*L3	R223	*C2	R500	*J7
C7	*L3	C254	F7	IC503	H6	R18	*M3	R224	*F3	R501	*J8
C8	*K5	C255	H7	IC504	J4	R19	*L3	R225	*F2	R502	*J7
C9	L4	C256	F7	IC505	*J3	R20	L6	R226	*F3	R503	*H7
C10	K5	C258	F5	IC506	*J2	R21	*K6	R227	*F3	R504	*K7
C11	*L2	C259	H5			R22	*L6	R228	*C3	R505	*J7
C12	M3	C260	*G5	L1	*M4	R23	*L6	R229	*C2	R506	*J7
C13	K6	C262	G6	L2	*L4	R24	*L6	R230	*C3	R507	*H7
C14	*K1	C263	G7	L3	L2	R25	*L6	R231	*F2	R508	*K6
C15	*L1	C264	F6	L4	K1	R26	*L6	R232	*D4	R509	*K7
C16	K3	C265	*A7	L5	H5	R27	*K2	R233	*B7	R510	*J6
C17	*K3	C266	*G6	L6	G5	R28	*L6	R234	*F3	R511	*J7
C18	L3	C267	*H6	L7	G5	R29	*K2	R235	*B3	R512	*J6
C19	*L3	C500	*J7	L8	F5	R30	*L2	R236	*B3	R513	*H6
C20	M6	C501	*J7	L9	*J5	R31	*K1	R237	*F3	R514	*J6
C21	*K2	C502	*J7	L10	*H3	R32	*K7	R238	*C6	R515	*J6
C22	K2	C503	*H7	L11	*J5	R33	*L2	R239	*C4	R516	*J6
C23	K3	C504	*K7	L201	C2	R34	*L1	R240	*D7	R517	*H6
C24	M2	C505	*J7	L202	*E5	R35	*K1	R241	*E3	R518	*H6
C25	*L5	C506	*K6			R36	*L1	R242	*C6	R519	*H6
C26	L3	C507	*J6	Q1	*M2	R37	*K2	R243	*E6	R520	*K6
C27	*L2	C508	*J7	Q2	*L2	R38	K3	R244	*D6	R521	*K6
C28	L4	C509	*H7	Q3	*L5	R39	*L2	R245	*G3	R522	*J6
C29	B2	C510	*J6	Q4	*M3	R40	*M6	R246	*G4	R523	*J6
C30	A2	C511	*H6	Q5	*M2	R41	L3	R247	*C7	R524	J6
C31	*A4	C512	*K6	Q6	*K5	R42	*L6	R248	*C7	R525	K6
C32	*A3	C513	*J6	Q7	*L3	R43	*K6	R249	*C7	R526	H6
C33	A3	C514	J6	Q8	*M3	R44	K3	R250	*B4	R527	J6
C34	A4	C515	J6	Q9	*L6	R45	L6	R251	*G4	R531	*J4
C35	A5	C516	*H4	Q10	*K6	R46	L3	R252	*F3	R532	H2
C36	A5	C517	*H4	Q11	*L6	R47	M6	R253	*E3	R533	H2
C37	J2	C518	*H4	Q12	*L6	R48	*K3	R254	*D7		
C45	B3	C519	J5	Q13	*K2	R49	*K3	R255	*G3	RV1	M2
C46	B4	C520	J5	Q14	*L2	R50	*M6	R256	*E7	RV2	K2
C47	B5	C521	*J4	Q15	*M6	R51	*L3	R257	*H3	RV3	L2
C48	B5	C522	*H4	Q16	*K2	R52	*L3	R258	*G3	RV4	L5
C49	B3	C523	*H3	Q17	*L2	R53	*L6	R259	*G3	RV201	C5
C50	*B4	C524	*J3	Q18	*K3	R54	*L3	R260	*C7	RV202	H6
C51	B4	C525	H2	Q19	*K2	R55	*L5	R261	*C4	RV203	F6
C52	*B5	C526	*J7	Q20	*L3	R56	*L6	R262	*D7	RV500	L7
C201	*G2	C527	*H7	Q21	*L2	R57	*K3	R263	*D7	RV501	K7
C202	*F3			Q22	*K3	R58	*L5	R264	*E7	RV502	J7
C203	*G3	CN1	E1	Q23	*K3	R59	*L5	R265	*G3	RV503	J7
C204	D2			Q24	*M5	R60	*L4	R266	*F4		
C205	G2	CP201	D4	Q25	*L3	R61	*K6	R267	*G3	S1	K6
C206	G3			Q26	*L3	R62	*L4	R268	*B7		
C207	*D4	D1	*A6	Q27	*K6	R63	*B2	R269	*F4	SL1	A2
C208	*D6	D2	*A3	Q28	*L5	R64	*B6	R270	*E4	SL2	A4
C209	*F2	D3	*A4	Q29	*M5	R65	B6	R271	*C7	SL3	A6
C210	*C6	D4	*A4	Q30	*L5	R66	*B6	R272	*C7		
C211	*E3	D5	*A5	Q31	*M5	R67	B6	R273	*F4	T201	D5
C212	*F3	D201	*D5	Q32	*L5	R68	*A4	R274	*E4		
C213	*C3	D202	*C3	Q33	*B6	R69	*A6	R275	*E4	TP1	M3
C214	E5	D203	*D6	Q34	*B3	R70	*A6	R276	*F5	TP2	L3
C215	G3	D204	*D6	Q35	*B4	R71	B6	R277	*F5	TP3	K3
C216	F2	D205	*D6	Q36	*B4	R72	B6	R278	*G5	TP4	L4
C217	F3	D206	*E6	Q37	*B5	R73	*A3	R279	*F5	TP201	G5
C218	D7	D207	*G3	Q201	*C2	R74	*A3	R280	*B7	TP202	F5
C219	E6	D208	*H3	Q202	E5	R75	*A4	R281	*F5	TP500	K5
C220	C2	D209	*C6	Q203	*C5	R76	*A5	R282	*H5	TP501	J5
C221	F3	D210	*H4	Q204	*D5	R77	*A5	R283	*G5	TP502	H5
C222	E3	D211	*E6	Q205	*C3	R78	A3	R284	*F5		
C223	*C4	D212	*G4	Q206	*C7	R79	A3	R285	*G6	*:B SIDE	
C224	*D6	D213	*D7	Q207	*D7	R80	B4	R286	*G6		
C225	*E6	D214	*D7	Q208	*D6	R81	A4	R287	*F6		
C226	E3	D215	*E7	Q209	*E6	R82	*B6	R288	*B7		
C227	C3	D216	*E7	Q210	*F4	R83	*A6	R289	*F6		
C228	C7	D217	*F5	Q211	*F4	R84	*B6	R290	*F6		
C229	D7	D218	*F5	Q212	*G5	R85	*B6	R291	*H5		
C230	D7	D219	*F6	Q213	*F5	R86	J2	R292	*G6		
C231	E7	D220	*G6	Q214	*G6	R201	*G2	R293	*G5		
C232	C4	D500	J6	Q215	*F6	R202	*C1	R294	*F5		
C233	F4	D501	K6	Q216	*G5	R203	*C2	R295	*G5		
C234	*C7	D502	H6	Q217	*F5	R204	*F3	R296	*F7		
C235	E4	D503	J6	Q218	*A7	R205	*C1	R297	*G7		
C236	B8					R206	*D1	R298	*B7		
C237	C6	E1	M4	R1	*L2	R207	*D1	R299	*F8		
C238	*G6			R2	*L2	R208	*D2	R302	*B7		
C239	*F6	IC1	L7	R3	*M1	R209	*G3	R304	*G8		
C240	*B7	IC2	*B2	R4	L5	R210	*G3	R305	*H8		
C241	*G5	IC3	A6	R5	*M1	R211	*E5	R307	*F8		
C242	B7	IC4	*A4	R6	L5	R212	*H2	R308	*A7		
C243	*H5	IC5	*A5	R7	K5	R213	*D4	R309	*F6		
C244	*H5	IC201	B7	R8	*M2	R214	*D4	R310	*H6		
C245	*F6	IC202	G4	R9	L3	R215	*E5	R311	*F6		
C246	*F5	IC203	C5	R10	L5	R216	*H3	R312	*H6		
C247	*G5	IC204	*H6	R11	M3	R217	*D6	R313	*H6		



CA-530 (SY) : S/N 10001 through 15000
CA-530 (J) : S/N 30001 through 35000

VSE-30 -A SIDE-
1-667-013-11

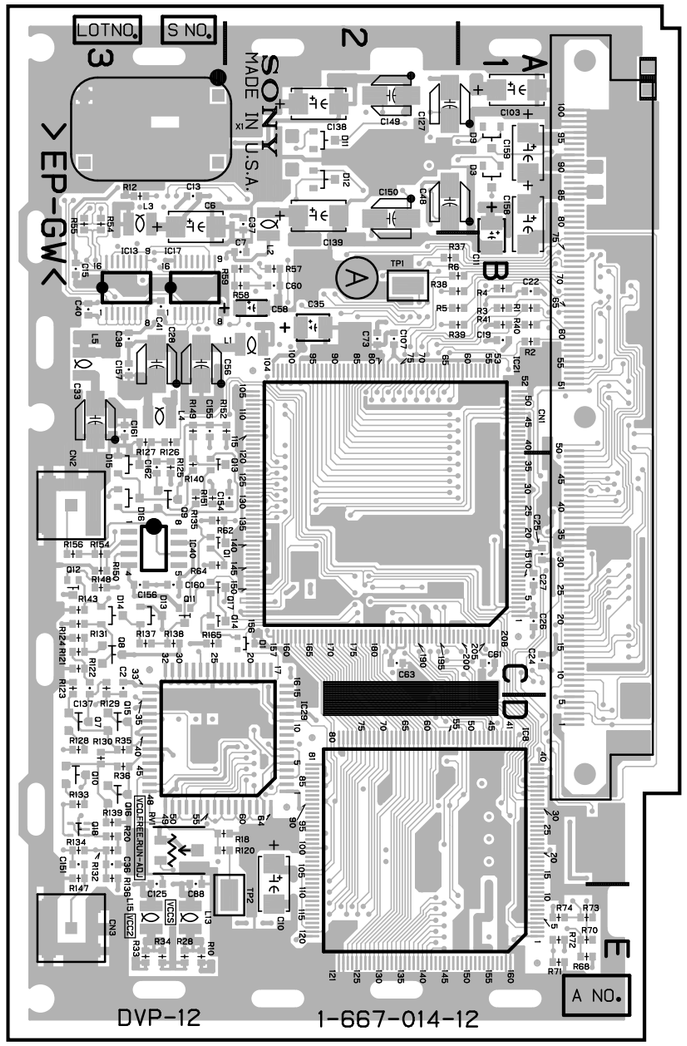


VSE-30 -B SIDE-
1-667-013-11

http://getMANUAL.com

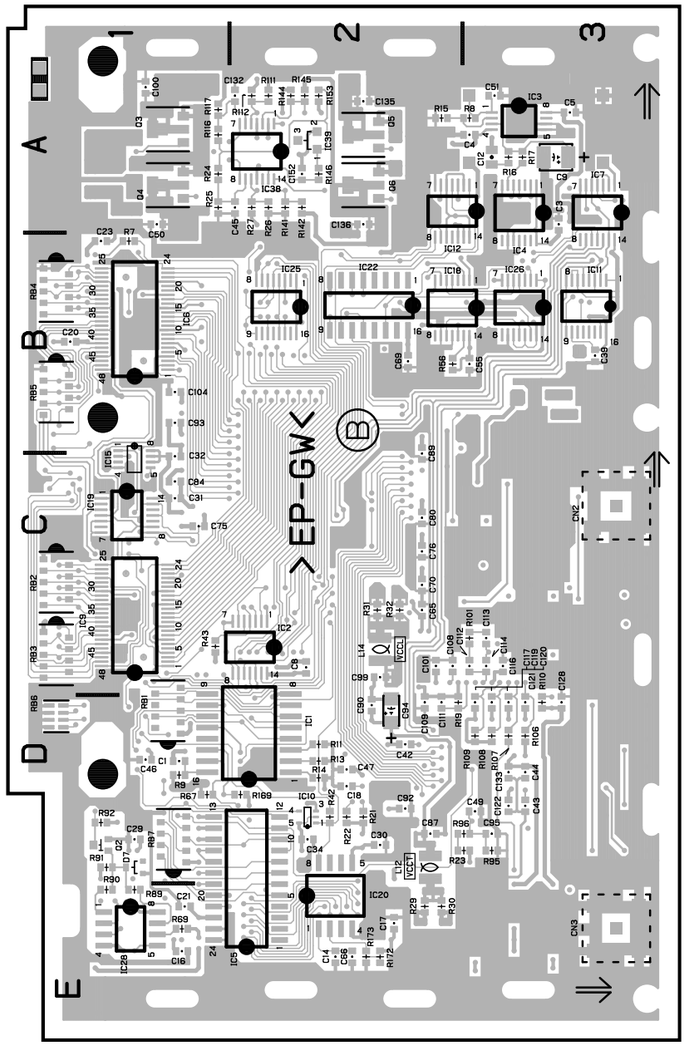
DVP-12 (1-667-014-12)

C1	*D1	C125	D3
C2	C3	C127	A2
C3	*A3	C128	*D3
C4	*A3	C132	*A2
C5	*A3	C133	*D3
C6	A3	C135	*A2
C7	B2	C136	*A2
C8	*C2	C137	C3
C9	*A3	C138	A2
C10	D2	C139	A2
C11	B1	C149	A2
C12	*A3	C150	A2
C13	A3	C151	D3
C14	*E2	C152	*A2
C15	B3	C154	C2
C16	*E1	C155	B3
C17	*E2	C156	C3
C18	*D2	C157	B3
C19	B1	C158	A1
C20	*B1	C159	A1
C21	*E1	C160	C3
C22	B1	C161	B3
C23	*B1	C162	C3
C24	C1		
C25	C1	CN1	B1
C26	C1	CN2	C3
C27	C1	CN3	E3
C28	B3		
C29	*D1	D1	C2
C30	*D2	D3	A1
C31	*C1	D7	*D1
C32	*C1	D9	A1
C33	B3	D11	A2
C34	*D2	D12	A2
C35	B2	D13	C3
C36	D3	D14	C3
C37	A2	D15	C3
C38	B3	D16	C3
C39	*B3		
C40	B3	IC1	*D2
C41	B3	IC2	*C2
C42	*D2	IC3	*A3
C43	*D3	IC4	*A3
C44	*D3	IC5	*E2
C45	*A2	IC6	*B1
C46	*D1	IC7	*A3
C47	*D2	IC8	D2
C48	A2	IC9	*C1
C49	*D3	IC10	*D2
C50	*A1	IC11	*B3
C51	*A3	IC12	*A3
C55	*B3	IC13	B3
C56	B3	IC15	*C1
C58	B2	IC17	B3
C60	B2	IC18	*B3
C61	C1	IC19	*C1
C63	C2	IC20	*E2
C65	*C2	IC21	C2
C66	*E2	IC22	*B2
C69	*B2	IC25	*B2
C70	*C2	IC26	*B3
C73	B2	IC28	*E1
C75	*C1	IC29	D3
C76	*C2	IC38	*A2
C80	*C2	IC39	*A2
C84	*C1	IC40	C3
C87	*D2		
C88	D3	L1	B2
C89	*C2	L2	A2
C90	*D2	L3	A3
C92	*D2	L4	B3
C93	*B1	L5	B3
C94	*D2	L12	*D2
C95	*D3	L13	E3
C99	*C2	L14	*C2
C100	*A1	L15	E3
C101	*C2		
C103	A1	Q1	C3
C104	*B1	Q2	*D1
C107	B2	Q3	*A1
C108	*C2	Q4	*A1
C109	*D2	Q5	*A2
C111	*D2	Q6	*A2
C112	*C3	Q7	D3
C113	*C3	Q8	C3
C114	*C3	Q9	C3
C116	*C3	Q10	D3
C117	*D3	Q11	C3
C119	*D3	Q12	C3
C120	*D3	Q13	C3
C121	*D3	Q14	C3
C122	*D3	Q15	D3



CA-530 (SY) : S/N 15001 and Higher
CA-530 (J) : S/N 35001 and Higher

DVP-12 -A SIDE-
1-667-014-12

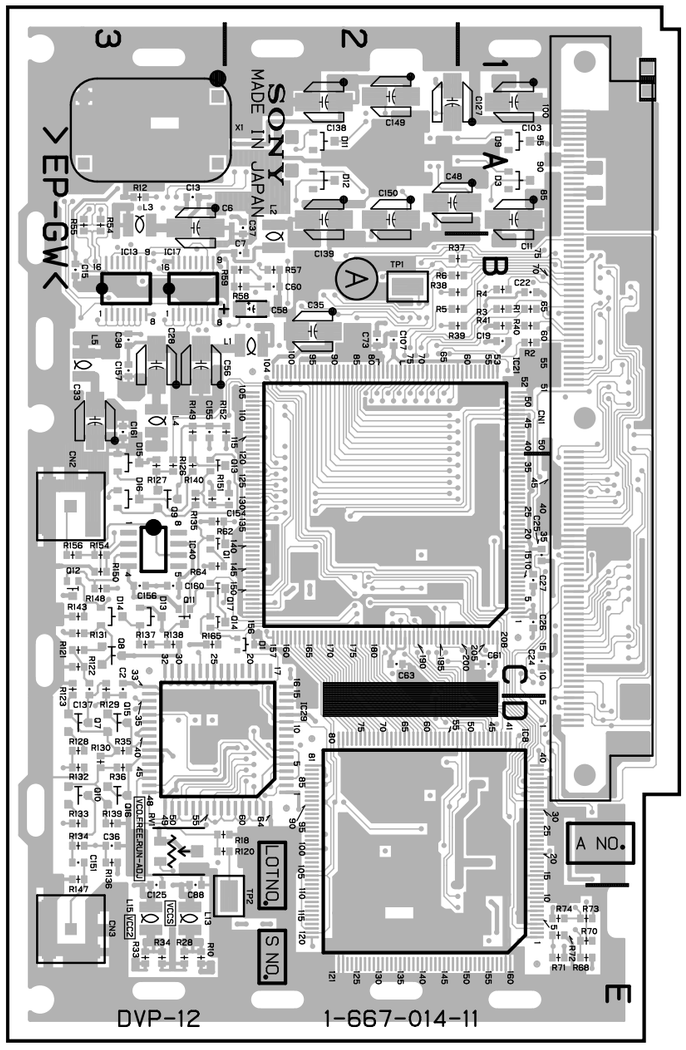


DVP-12 -B SIDE-
1-667-014-12

Q16	D3	R133	D3
Q17	C3	R134	D3
Q18	D3	R135	C3
		R136	D3
R1	B1	R137	C3
R2	B1	R138	C3
R3	B1	R139	D3
R4	B1	R140	C3
R5	B1	R141	*A2
R6	B1	R142	*A2
R7	*B1	R143	C3
R8	*A3	R144	*A2
R9	*D1	R145	*A2
R10	E3	R146	*A2
R11	*D2	R147	D3
R12	A3	R148	C3
R13	*D2	R149	B3
R14	*D2	R150	C3
R15	*A2	R151	C3
R16	*A3	R152	B2
R17	*A3	R153	*A2
R18	D3	R154	C3
R19	*D2	R156	C3
R20	D3	R165	C3
R21	*D2	R169	*D2
R22	*D2	R172	*E2
R23	*D3	R173	*E2
R24	*A1		
R25	*A1	RB1	*D1
R26	*A2	RB2	*C1
R27	*A2	RB3	*C1
R28	E3	RB4	*B1
R29	*E2	RB5	*B1
R30	*E2	RB6	*D1
R31	*C2	RB7	*D1
R32	*C2		
R33	E3	RV1	D3
R34	E3		
R35	D3	TP1	B2
R36	D3	TP2	E2
R37	B2		
R38	B1	X1	A3
R39	B1		
R40	B1	*:B SIDE	
R41	B1		
R42	*D2		
R43	*C1		
R54	A3		
R55	A3		
R56	*B2		
R57	B2		
R58	B2		
R59	B2		
R62	C3		
R64	C3		
R67	*D1		
R68	E1		
R69	*E1		
R70	E1		
R71	E1		
R72	E1		
R73	E1		
R74	E1		
R89	*E1		
R90	*E1		
R91	*D1		
R92	*D1		
R95	*D3		
R96	*D3		
R101	*C3		
R106	*D3		
R107	*D3		
R108	*D3		
R109	*D3		
R110	*D3		
R111	*A2		
R112	*A2		
R116	*A1		
R117	*A1		
R120	D3		
R121	C3		
R122	C3		
R123	C3		
R124	C3		
R125	C3		
R126	B3		
R127	B3		
R128	D3		
R129	C3		
R130	D3		
R131	C3		
R132	D3		

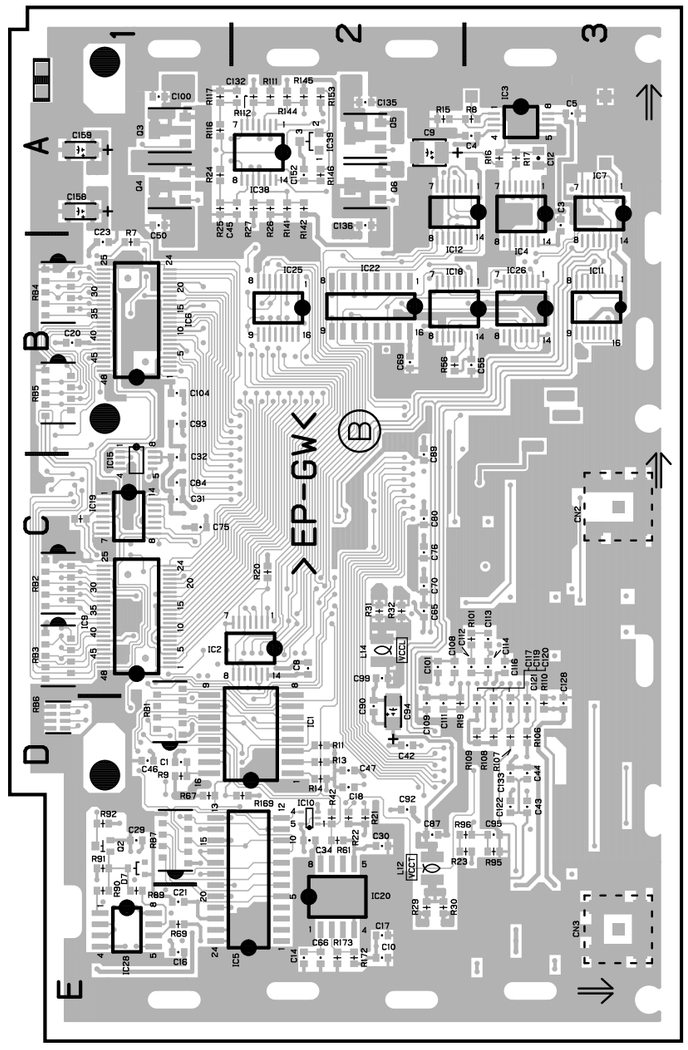
DVP-12 (1-667-014-11)

C1	*D1	C135	*A2
C2	C3	C136	*A2
C3	*A3	C137	C3
C4	*A3	C138	A2
C5	*A3	C139	A2
C6	A3	C149	A2
C7	B2	C150	A2
C8	*C2	C151	D3
C9	*A2	C152	*A2
C10	*E2	C154	C2
C11	A1	C155	B3
C12	*A3	C156	C3
C13	A3	C157	B3
C14	*E2	C158	*A1
C15	B3	C159	*A1
C16	*E1	C160	C3
C17	*E2	C161	B3
C18	*D2		
C19	B1	CN1	B1
C20	*B1	CN2	C3
C21	*E1	CN3	E3
C22	B1		
C23	*B1	D1	C2
C24	C1	D3	A1
C25	C1	D7	*D1
C26	C1	D9	A1
C27	C1	D11	A2
C28	B3	D12	A2
C29	*D1	D13	C3
C30	*D2	D14	C3
C31	*C1	D15	C3
C32	*C1	D16	C3
C33	B3		
C34	*D2	IC1	*D2
C35	B2	IC2	*C2
C36	D3	IC3	*A3
C37	A2	IC4	*A3
C38	B3	IC5	*E2
C42	*D2	IC6	*B1
C43	*D3	IC7	*A3
C44	*D3	IC8	D2
C45	*A2	IC9	*C1
C46	*D1	IC10	*D2
C47	*D2	IC11	*B3
C48	A2	IC12	*A3
C50	*A1	IC13	B3
C55	*B3	IC15	*C1
C56	B3	IC17	B3
C58	B2	IC18	*B3
C60	B2	IC19	*C1
C61	C1	IC20	*E2
C63	C2	IC21	C2
C65	*C2	IC22	*B2
C66	*E2	IC25	*B2
C69	*B2	IC26	*B3
C70	*C2	IC28	*E1
C73	B2	IC29	D3
C75	*C1	IC38	*A2
C76	*C2	IC39	*A2
C80	*C2	IC40	C3
C84	*C1		
C87	*D2	L1	B2
C88	D3	L2	B2
C89	*C2	L3	A3
C90	*D2	L4	B3
C92	*D2	L5	B3
C93	*B1	L12	*D2
C94	*D2	L13	E3
C95	*D3	L14	*C2
C99	*C2	L15	E3
C100	*A1		
C101	*C2	Q1	C3
C103	A1	Q2	*D1
C104	*B1	Q3	*A1
C107	B2	Q4	*A1
C108	*C2	Q5	*A2
C109	*D2	Q6	*A2
C111	*D2	Q7	D3
C112	*C3	Q8	C3
C113	*C3	Q9	C3
C114	*C3	Q10	D3
C116	*C3	Q11	C3
C117	*D3	Q12	C3
C119	*D3	Q13	C3
C120	*D3	Q14	C3
C121	*D3	Q15	D3
C122	*D3	Q16	D3
C125	D3	Q17	C3
C127	A2		
C128	*D3	R1	B1
C132	*A2	R2	B1
C133	*D3	R3	B1



CA-530 (SY) : S/N 10001 through 15000
CA-530 (J) : S/N 30001 through 35000

DVP-12 -A SIDE-
1-667-014-11

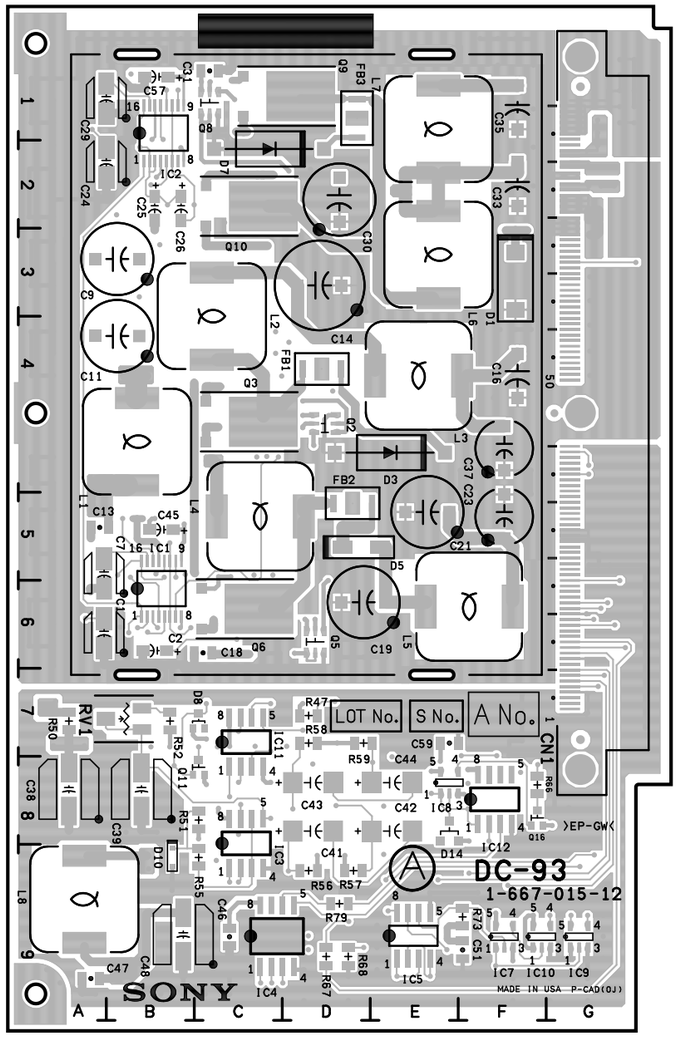


DVP-12 -B SIDE-
1-667-014-11

R4	B1	R142	*A2
R5	B1	R143	C3
R6	B1	R144	*A2
R7	*B1	R145	*A2
R8	*A3	R146	*A2
R9	*D1	R147	D3
R10	E3	R148	C3
R11	*D2	R149	B3
R12	A3	R150	C3
R13	*D2	R151	C3
R14	*D2	R152	B2
R15	*A2	R153	*A2
R16	*A3	R154	C3
R17	*A3	R156	C3
R18	D3	R165	C3
R19	*D2	R169	*D2
R20	*C2	R172	*E2
R21	*D2	R173	*E2
R22	*D2		
R23	*D3	RB1	*D1
R24	*A1	RB2	*C1
R25	*A1	RB3	*C1
R26	*A2	RB4	*B1
R27	*A2	RB5	*B1
R28	E3	RB6	*D1
R29	*E2	RB7	*D1
R30	*E2		
R31	*C2	RV1	D3
R32	*C2		
R33	E3	TP1	B2
R34	E3	TP2	E2
R35	D3		
R36	D3	X1	A3
R37	B1		
R38	B1	*:B SIDE	
R39	B1		
R40	B1		
R41	B1		
R42	*D2		
R54	A3		
R55	A3		
R56	*B2		
R57	B2		
R58	B2		
R59	B2		
R61	*D2		
R62	C3		
R64	C3		
R67	*D1		
R68	E1		
R69	*E1		
R70	E1		
R71	E1		
R72	E1		
R73	E1		
R74	E1		
R89	*E1		
R90	*E1		
R91	*D1		
R92	*D1		
R95	*D3		
R96	*D3		
R101	*C3		
R106	*D3		
R107	*D3		
R108	*D3		
R109	*D3		
R110	*D3		
R111	*A2		
R112	*A2		
R116	*A1		
R117	*A1		
R120	D3		
R121	C3		
R122	C3		
R123	C3		
R126	C3		
R127	C3		
R128	D3		
R129	C3		
R130	D3		
R131	C3		
R132	D3		
R133	D3		
R134	D3		
R135	C3		
R136	D3		
R137	C3		
R138	C3		
R139	D3		
R140	C3		
R141	*A2		

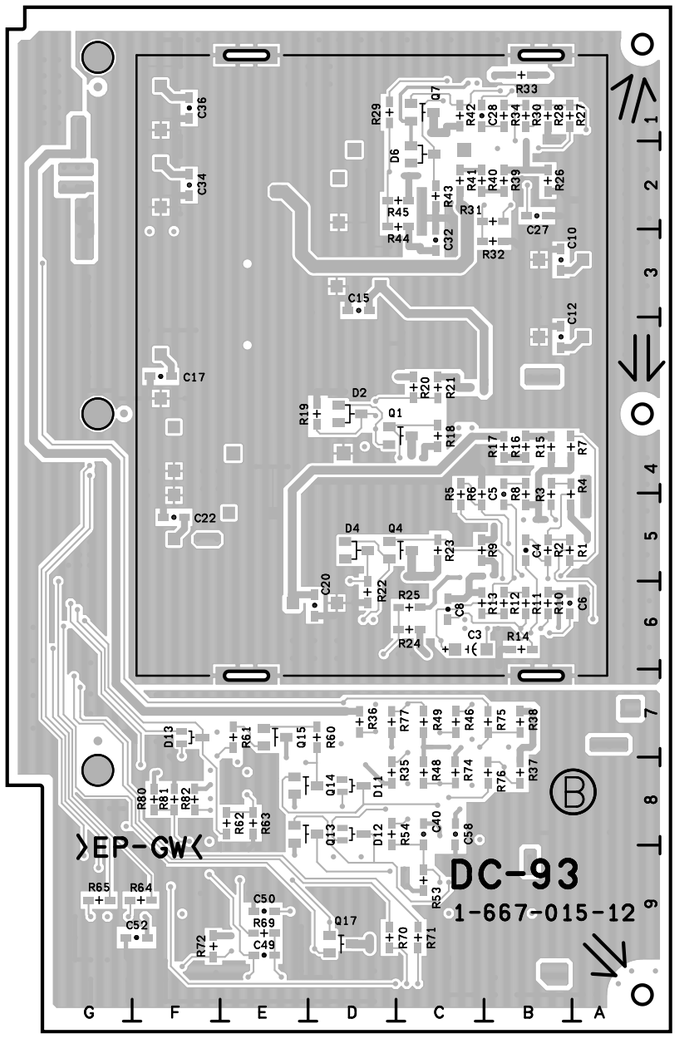
DC-93(1-667-015-12)

C1	A6	L5	F6	R71	*C9
C2	B6	L6	E3	R72	*F9
C3	*C6	L7	E1	R73	F9
C4	*B5	L8	A9	R74	*C8
C5	*B5			R75	*B7
C6	*B6	Q1	*C4	R76	*B8
C7	A5	Q2	D4	R77	*D7
C8	*C6	Q3	C4	R79	D9
C9	B3	Q4	*C5	R80	*F8
C10	*B3	Q5	D6	R81	*F8
C11	B4	Q6	C6	R82	*F8
C12	*B4	Q7	*C1		
C13	A5	Q8	C1	RV1	B7
C14	D3	Q9	D1		
C15	*D3	Q10	C2	*:B SIDE	
C16	F4	Q11	C8		
C17	*F4	Q13	*E8		
C18	C6	Q14	*E8		
C19	D6	Q15	*E7		
C20	*D6	Q16	F8		
C21	E5	Q17	*D9		
C22	*F5				
C23	F5	R1	*B5		
C24	A2	R2	*B5		
C25	B2	R3	*B5		
C26	B2	R4	*B5		
C27	*B2	R5	*C5		
C28	*C1	R6	*C5		
C29	A1	R7	*B4		
C30	D2	R8	*B5		
C31	C1	R9	*C5		
C32	*C3	R10	*B6		
C33	F2	R11	*B6		
C34	*F2	R12	*B6		
C35	F1	R13	*C6		
C36	*F1	R14	*B6		
C37	F4	R15	*B4		
C38	A8	R16	*B4		
C39	B8	R17	*B4		
C40	*C8	R18	*C4		
C41	D8	R19	*D4		
C42	E8	R20	*C4		
C43	D8	R21	*C4		
C44	E8	R22	*D6		
C45	B5	R23	*C5		
C46	C9	R24	*C6		
C47	A9	R25	*C6		
C48	B9	R26	*B2		
C49	*E9	R27	*B1		
C50	*E9	R28	*B1		
C51	F9	R29	*D1		
C52	*F9	R30	*B1		
C57	B1	R31	*B2		
C58	*C8	R32	*B3		
C59	E7	R33	*B1		
		R34	*B1		
CN1	G4	R35	*D8		
		R36	*D7		
D1	F3	R37	*B8		
D2	*D4	R38	*B7		
D3	E4	R39	*B2		
D4	*D5	R40	*C2		
D5	D5	R41	*C2		
D6	*C2	R42	*C1		
D7	C2	R43	*C2		
D8	C7	R44	*C2		
D10	B9	R45	*C2		
D11	*D8	R46	*C7		
D12	*D8	R47	D7		
D13	*F7	R48	*C8		
D14	E8	R49	*C7		
		R50	A7		
FB1	D4	R51	C8		
FB2	D5	R52	B7		
FB3	D1	R53	*C9		
		R54	*D8		
IC1	B6	R55	C9		
IC2	B1	R56	D9		
IC3	C8	R57	D9		
IC4	C9	R58	D7		
IC5	E9	R59	D7		
IC7	F9	R60	*D7		
IC8	E8	R61	*E7		
IC9	G9	R62	*E8		
IC10	F9	R63	*E8		
IC11	C7	R64	*F9		
IC12	F8	R65	*G9		
		R66	F8		
L1	B4	R67	D9		
L2	C3	R68	D9		
L3	E4	R69	*E9		
L4	C5	R70	*D9		



CA-530 (SY) : S/N 15001 and Higher
CA-530 (J) : S/N 35001 and Higher

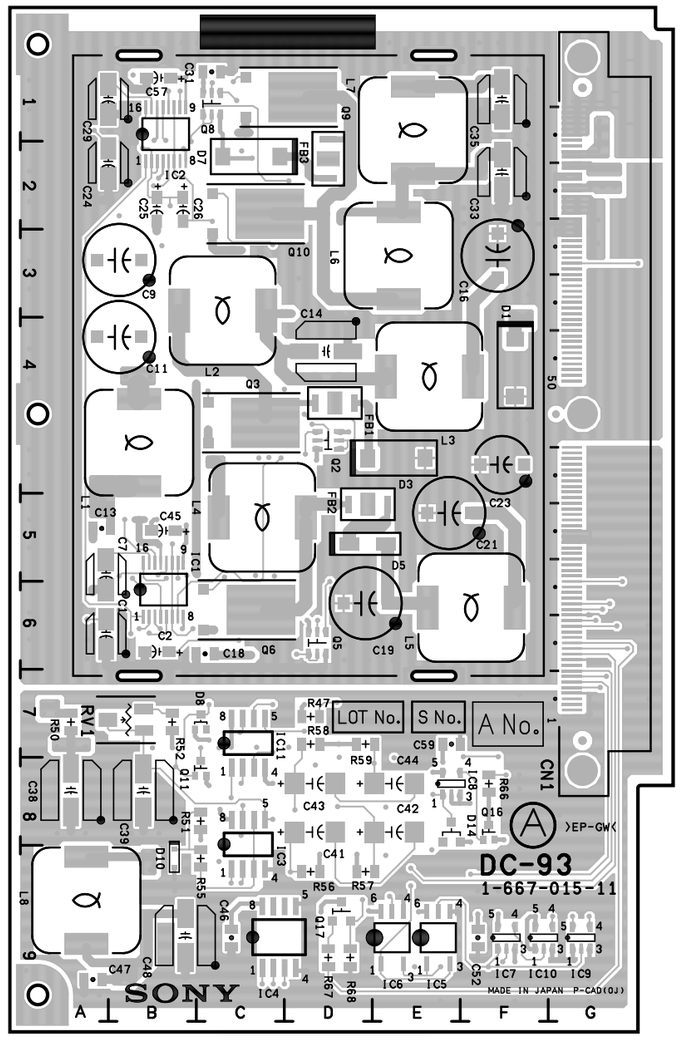
DC-93 -A SIDE-
1-667-015-12



DC-93 -B SIDE-
1-667-015-12

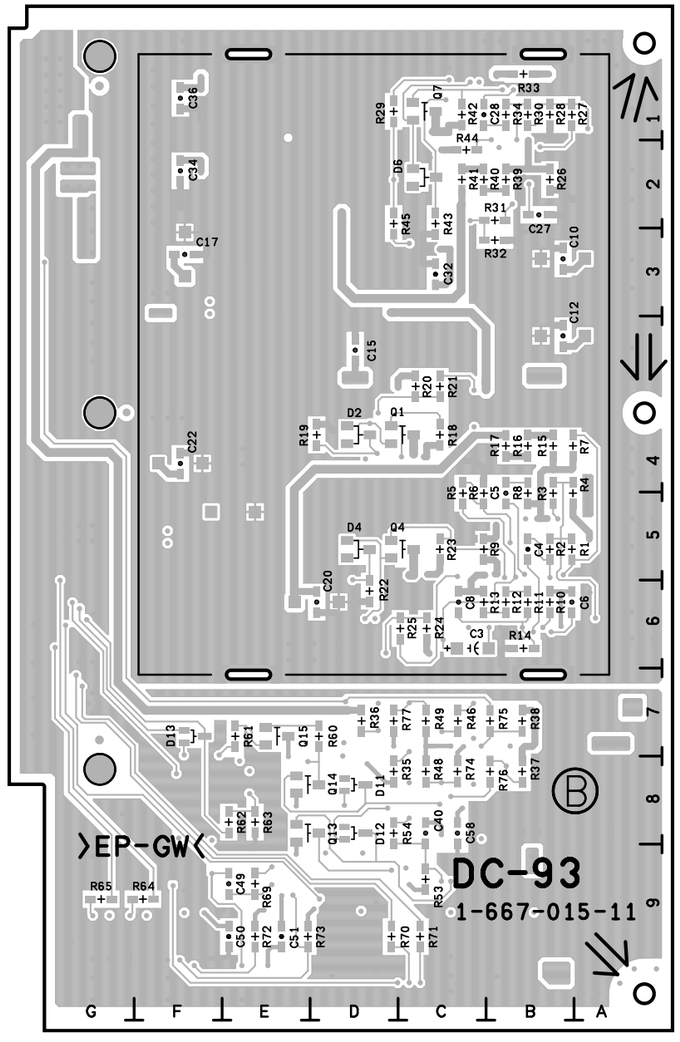
DC-93(1-667-015-11)

C1	A6	L7	E1	R73	*E9
C2	B6	L8	A9	R74	*C8
C3	*C6			R75	*B7
C4	*B5	Q1	*C4	R76	*B8
C5	*B5	Q2	D4	R77	*D7
C6	*B6	Q3	C4		
C7	A5	Q4	*C5	RV1	B7
C8	*C6	Q5	D6		
C9	B3	Q6	C6	*:B SIDE	
C10	*B3	Q7	*C1		
C11	B4	Q8	C1		
C12	*B4	Q9	D1		
C13	A5	Q10	C2		
C14	D4	Q11	C8		
C15	*D4	Q13	*E8		
C16	F3	Q14	*E8		
C17	*F3	Q15	*E7		
C18	C6	Q16	F8		
C19	D6	Q17	D9		
C20	*D6				
C21	E5	R1	*B5		
C22	*F4	R2	*B5		
C23	F4	R3	*B5		
C24	A2	R4	*B5		
C25	B2	R5	*C5		
C26	B2	R6	*C5		
C27	*B2	R7	*B4		
C28	*C1	R8	*B5		
C29	A1	R9	*C5		
C31	C1	R10	*B6		
C32	*C3	R11	*B6		
C33	F2	R12	*B6		
C34	*F2	R13	*C6		
C35	F1	R14	*B6		
C36	*F1	R15	*B4		
C38	A8	R16	*B4		
C39	B8	R17	*B4		
C40	*C8	R18	*C4		
C41	D8	R19	*D4		
C42	E8	R20	*C4		
C43	D8	R21	*C4		
C44	E8	R22	*D6		
C45	B5	R23	*C5		
C46	C9	R24	*C6		
C47	A9	R25	*C6		
C48	B9	R26	*B2		
C49	*E9	R27	*B1		
C50	*E9	R28	*B1		
C51	*E9	R29	*D1		
C52	F9	R30	*B1		
C57	B1	R31	*B2		
C58	*C8	R32	*B3		
C59	E7	R33	*B1		
		R34	*B1		
CN1	G4	R35	*D8		
		R36	*D7		
D1	F4	R37	*B8		
D2	*D4	R38	*B7		
D3	E4	R39	*B2		
D4	*D5	R40	*C2		
D5	D5	R41	*C2		
D6	*C2	R42	*C1		
D7	C2	R43	*C2		
D8	C7	R44	*C2		
D10	B9	R45	*D2		
D11	*D8	R46	*C7		
D12	*D8	R47	D7		
D13	*F7	R48	*C8		
D14	E8	R49	*C7		
		R50	A7		
FB1	D4	R51	C8		
FB2	D5	R52	B7		
FB3	D2	R53	*C9		
		R54	*D8		
IC1	B6	R55	C9		
IC2	B1	R56	D9		
IC3	C8	R57	D9		
IC4	C9	R58	D7		
IC5	E9	R59	D7		
IC6	E9	R60	*D7		
IC7	F9	R61	*E7		
IC8	E8	R62	*E8		
IC9	G9	R63	*E8		
IC10	F9	R64	*F9		
IC11	C7	R65	*G9		
		R66	F8		
L1	B4	R67	D9		
L2	C3	R68	D9		
L3	E4	R69	*E9		
L4	C5	R70	*D9		
L5	F6	R71	*C9		
L6	E3	R72	*E9		



CA-530 (SY) : S/N 10001 through 15000
CA-530 (J) : S/N 30001 through 35000

DC-93 -A SIDE-
1-667-015-11

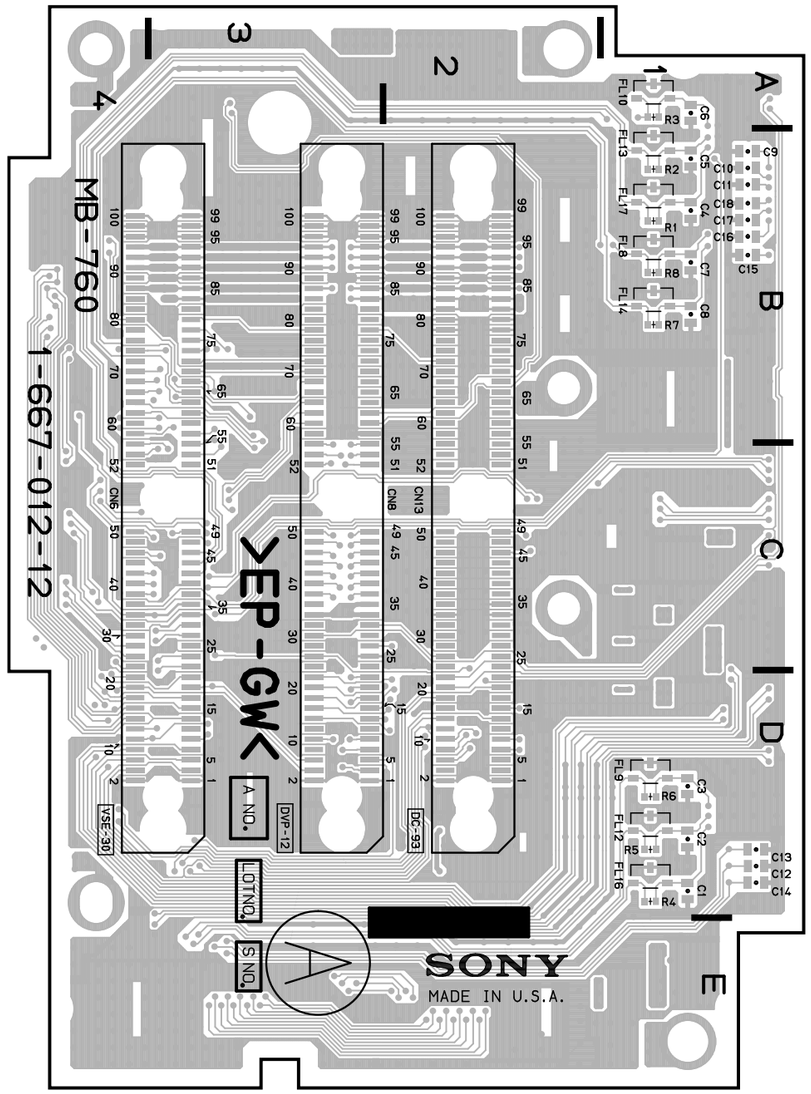


DC-93 -B SIDE-
1-667-015-11

MB-760 (1-667-012-12)

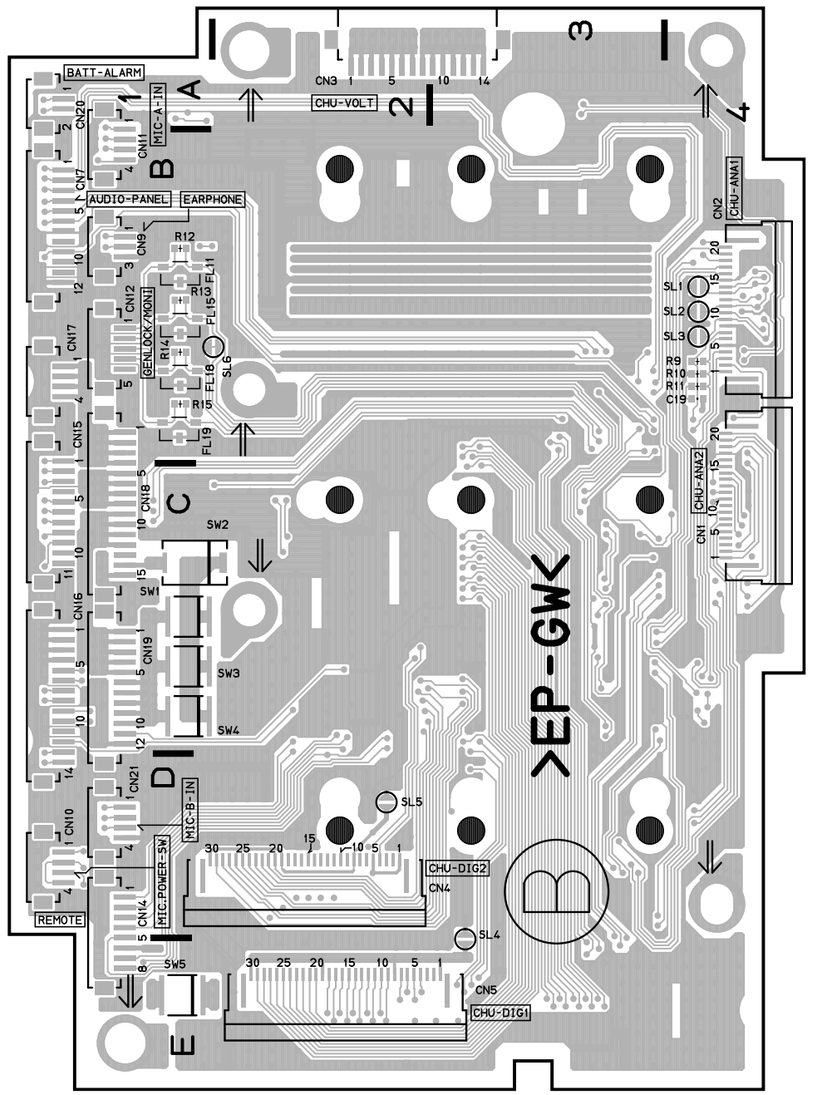
C1	D1
C2	D1
C3	D1
C4	B1
C5	B1
C6	A1
C7	B1
C8	B1
C9	B1
C10	B1
C11	B1
C12	D1
C13	D1
C14	D1
C15	B1
C16	B1
C17	B1
C18	B1
C19	*B4
CN1	*C4
CN2	*B4
CN3	*A2
CN4	*D2
CN5	*E2
CN6	C3
CN7	*B1
CN8	C3
CN9	*B1
CN10	*D1
CN11	*B1
CN12	*B1
CN13	C2
CN14	*D1
CN15	*C1
CN16	*C1
CN17	*B1
CN18	*C1
CN19	*C1
CN20	*A1
CN21	*D1
FL8	B1
FL9	D1
FL10	A1
FL11	*B1
FL12	D1
FL13	B1
FL14	B1
FL15	*B1
FL16	D1
FL17	B1
FL18	*B1
FL19	*B1
R1	B1
R2	B1
R3	A1
R4	D1
R5	D1
R6	D1
R7	B1
R8	B1
R9	*B4
R10	*B4
R11	*B4
R12	*B1
R13	*B1
R14	*B1
R15	*B1
SL1	*B4
SL2	*B4
SL3	*B4
SL4	*E3
SL5	*D2
SL6	*B2
SW1	*C1
SW2	*C1
SW3	*C1
SW4	*C1
SW5	*E1

*:B SIDE



CA-530 (SY) : S/N 15001 and Higher
CA-530 (J) : S/N 35001 and Higher

MB-760 -A SIDE-
1-667-012-12



MB-760 -B SIDE-
1-667-012-12

MB-760 (1-667-012-11)

C1 D1
C2 D1
C3 D1
C4 B1
C5 B1
C6 A1
C7 B1
C8 B1
C9 B1
C10 B1
C11 B1
C12 D1
C13 D1
C14 D1
C15 B1
C16 B1
C17 B1
C18 B1
C19 *B4

CN1 *C4
CN2 *B4
CN3 *A2
CN4 *D2
CN5 *E2
CN6 C3
CN7 *B1
CN8 C3
CN9 *B1
CN10 *D1
CN11 *B1
CN12 *B1
CN13 C2
CN14 *D1
CN15 *C1
CN16 *C1
CN17 *B1
CN18 *C1
CN19 *C1
CN20 *A1
CN21 *D1

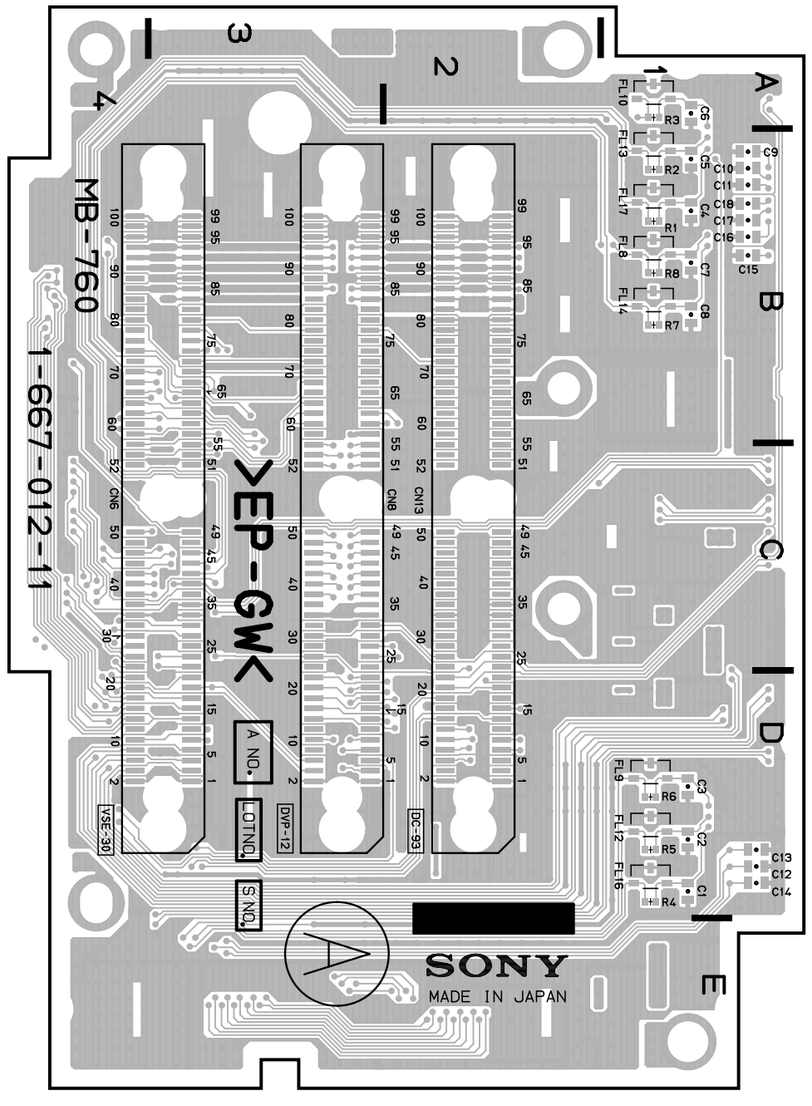
FL8 B1
FL9 D1
FL10 A1
FL11 *B1
FL12 D1
FL13 B1
FL14 B1
FL15 *B1
FL16 D1
FL17 B1
FL18 *B1
FL19 *B1

R1 B1
R2 B1
R3 A1
R4 D1
R5 D1
R6 D1
R7 B1
R8 B1
R9 *B4
R10 *B4
R11 *B4
R12 *B1
R13 *B1
R14 *B1
R15 *B1

SL1 *B4
SL2 *B4
SL3 *B4
SL4 *E3
SL5 *D2

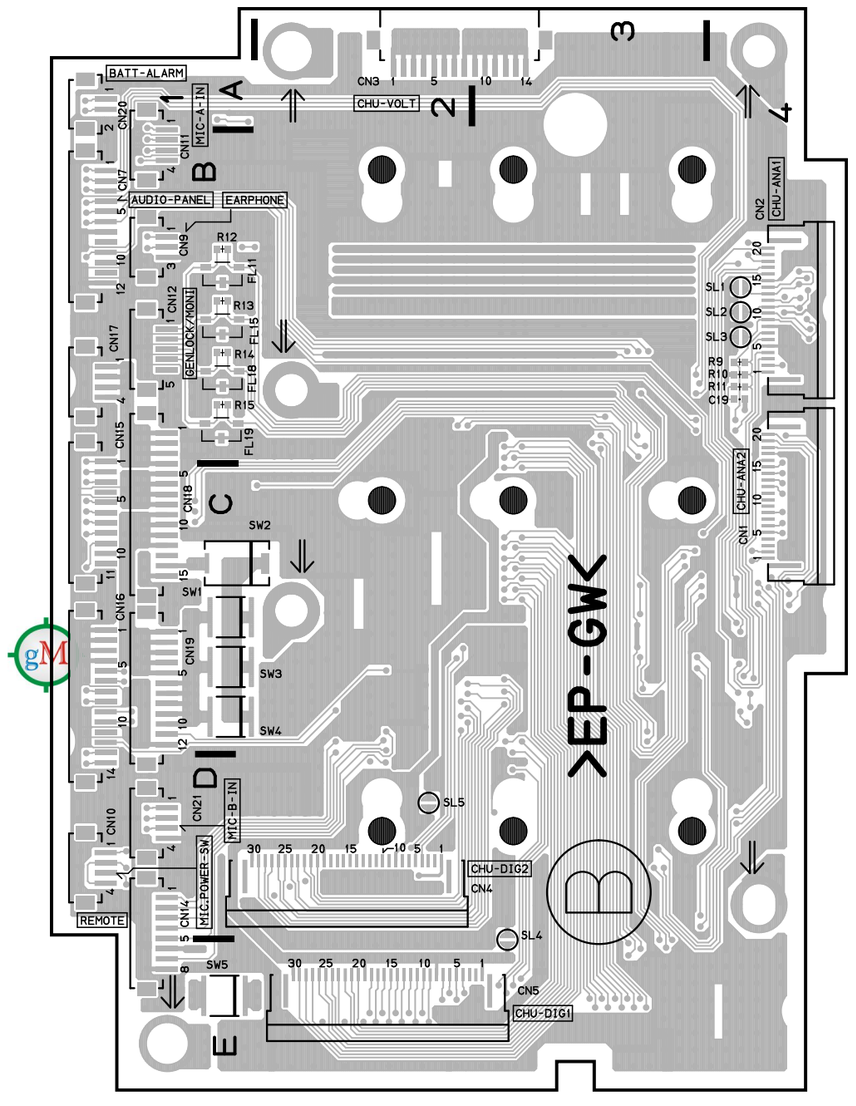
SW1 *C1
SW2 *C1
SW3 *C1
SW4 *C1
SW5 *E1

*:B SIDE



CA-530 (SY) : S/N 10001 through 15000
CA-530 (J) : S/N 30001 through 35000

MB-760 -A SIDE-
1-667-012-11



MB-760 -B SIDE-
1-667-012-11

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